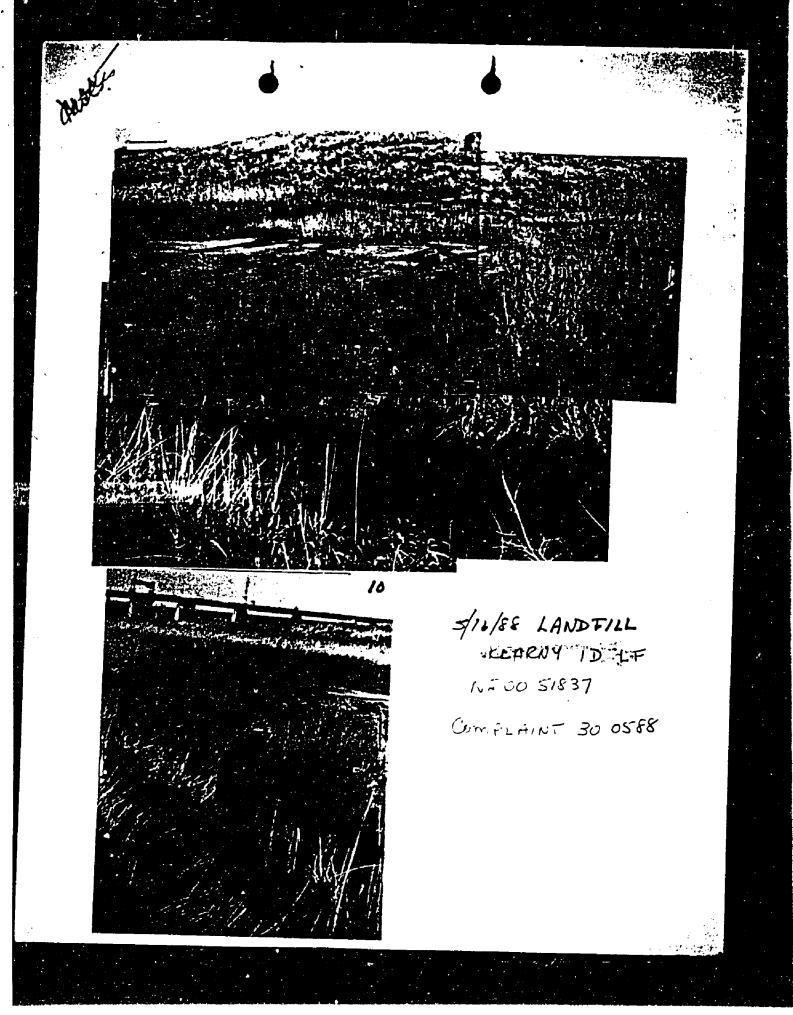
Form DWR-052 3/81

# NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES REPORT OF PHONE CALL OR VISIT

	30 -05	C P
Bureau or Office		
In Out	File Learn	N. C.
Date 5/17/88 Time	Routing	TO THE
•	The second secon	17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Person Contacted Internal Acle	<u> </u>	
Affiliation	Phone No.	S 12 24
^		
Subject of Call Handful Leach	ate	
Summary of Visit Managette on	South-Side of 780	
flading East - almo	est to newark	
sumpine (ask Hel	in for exect due	tions)
file a melly be	lack New-off a	tu.
flenning down the	e hell on the land	Hell
the lachate calle	cts in a detch	ulow
	· Same Company	
	- WAR STATE OF THE	
	. See See See See See See See See See Se	- S. W. S.
	· BAGOOOO	35
	<u> </u>	
		jeste ji seseriji ji
Action Recommended	•	<del></del>
·		
	•	
(Helen took pictures)	0-91	
	R- Hanis	<b>***</b>
The second secon	Signature	





#### State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

## DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT

2 BABCOCK PLACE WEST ORANGE, NEW JERSEY 07052

GEORGE G. McCANN, P.E. D/RECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

February 10, 1989

### CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mayor and Council Town of Kearny 402 Kearny Avenue Kearny, NJ 07032

Re:

Compliance Evaluation Inspection Kearny 1-D Sanitary Landfill NJPDES No. NJ 0051837 Kearny/Hudson County

#### Gentlemen:

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on January 18, 1989. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "UNACCEPTABLE" due to the following deficiencies:

- 1. The permittee is not sampling the six (6) ground water monitoring wells and submitting Monitoring Report Forms as required by Part I, Page 7, Condition g(1) of the site's NJPDES permit.
- 2. The permittee has not submitted a plot plan of the site including the location of all ground water monitoring wells and methane gas vents as required by Part II, Page 1, Conditions 3(a) of the site's NJPDES permit.
- 3. Ground Water Monitoring Well Certification Forms A and B for each existing ground water monitoring well have not been

BAA000068

submitted as required by part II, Page 2, Condition 3(c) of the sites NJPDES permit.

- 4. The permittee is not conducting weekly inspections of the monitoring wells or maintaining an inspection record as required by Part II, Page 3, Condition 9 of the site's NJPDES permit.
- 5. The permittee has not delineated all leachate discharges to the surface waters of the State as required by Part II, Page 4, Condition 18 of the site's NJPDES permit.
- 6. The seven (7) wells located during the inspection did not have well permit numbers attached to the casing. The five (5) wells believed to be Monitoring Wells 1 through 5 did not have well permit numbers attached to the casing as required by Part II, Page 3, Condition 8 of the NJPDES site's permit.
- 7. The permittee failed to report the damage to Monitoring Wells 1, 2 and 6 as required by Part II-F, Page 2 Condition 10 of the site's NJPDES permit. Monitoring Wells 1 and 2 have bent casings that may cause sampling difficulties, Monitoring Well 6 could not be located during the inspection and may have been demolished by the construction crew installing the methane recovery system.
- 8. Contaminated run-off and leachate from the landfill collects in several locations around the base of the landfill and discharges to the surface waters of the State. This discharge is a unpermitted discharge to the surface waters of the State, the Town of Kearny must cease this discharge.

Deficiencies 1 through 6 were noted in the directive letter to the Town of Kearny dated February 10, 1988. The Town of Kearny has failed to correct these deficiencies as stated in Mr. Norman Doyle's letter to the Department dated May 13, 1988.

The deficiencies noted above are significant violations of the terms and conditions of your NJPDES permit and/or the Water Pollution Control Act Regulations (N.J.A.C. 7:14A-1 et seq.). You are therefore DIRECTED to institute corrective measures. A written report concerning specific details of remedial measures to be instituted, as well as an implementation timetable, must be submitted to this Department and USEPA, Permits Administration Branch within thirty (30) calendar days of the date of this correspondence.

You are advised that the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1  $\underline{et}$   $\underline{seq}$ .) provides for substantial monetary and criminal penalties in cases of permit violations.

Please direct all correspondence and inquiries to Deborah R. Ford, the Environmental Specialist responsible for this case, who can be reached at (201) 669-3900, or by letter through this Division.

Failure to fully comply with the above will result in the initiation of enforcement action by this Department. This shall in no way be construed, however, to indicate any exemption on your part from possible penalties for violations indicated by the Compliance Evaluation Inspection, as stated above.

Very truly yours,

Stefan D. Sedlak Section Chief

Metro Bureau of Regional Enforcement

Ton Sullah

E14:G25

c: Dr. Richard A. Baker, USEPA Mr. Paul Molinari, USEPA Health Official Mr. Scott Tyrell, BAP

Enclosure

bc: Zaheer Hussain, Enforcement Criminal Justice Central File



#### NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625



#### DISCHARGE SURVEILLANCE REPORT

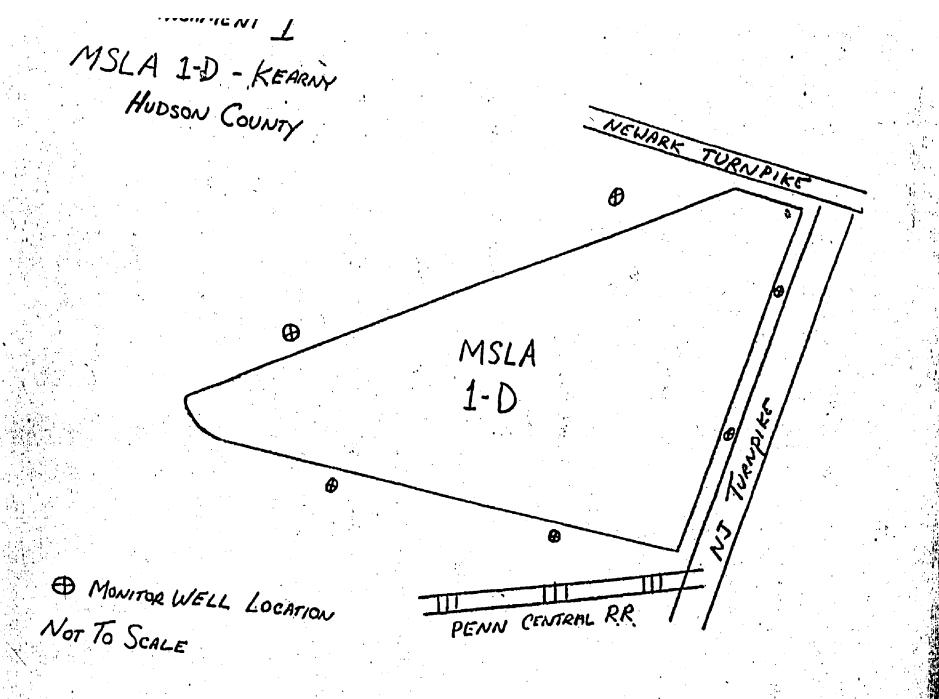
PERMIT # NJOO5 1837 NO. OF DISCHARGES 6 MW 5 CLASS MA) / TNB
DISCHARGER Kearny ID Land F: 11
OWNER Town of Kearny
MUNICIPALITY <u>Kearny</u> county <u>Hudson</u> watershed code <u>Gw</u> LOCATION <u>Intersection</u> of NJ Turnpike and Newark turnpike
LOCATION Intersection of NU Turnpike and Newark turnpike
RECEIVING WATERS Como a contest STREAM CLASS NA
LICENSED OPERATOR & PLANT CLASS
TRAINEE/ASSISTANT OTHER INFO. (201) 939-5805 (Neglia)
DEFICIENCIES OR COMMENTS - See léfler -
OVERALL RATING   Acceptable Conditionally Acceptable Unacceptable
EVALUATOR Deborah R. Ford TITLE Environmental Specialist
INFORMATION FURNISHED BY (Name) Mr. Barry Sitherland, D.E.
(Title) Director of Engineering (Organization) Neglia Engineering Assorbates
DATE OF INSPECTION January 18, 1989

#### DIVISION OF WATER RESOURCES CN 029, Treaton, N.J. 08625

#### DISCHARGE SURVEILLANCE REPORT

Permit # 1005 1837
Date 1/18/89

	GR GR	OUND W	ATER DISCHARGE EVALUATION
RA	TING CODES: S = Satisfactory M = M	erginal	U = Umatisfactory. NA = Not Applicable N I-not mspected
_		RATIN	G COMMENTS
1	TYPE DGW	_	Land Fill
	RCRA FACILITY	NA	
1 -3	DISCHARGE NUMBER	Ni	
GENERAL	WASTEWATER SOURCE/FREQ.		Leachate
胃	PUMPS AND PIPING	NA	
병	ALTERNATE POWER/ALARM	NA	
-	BYPASS	NA	
•			
	WATER SUPPLY/MONITORING	NIT	
X	AQUIFERS MONITORED		Organic Met + Clayoof the Hacken suck Mendering
E	UPGRADIENT WELLS	U	wells are not numbered
1 %	DOWNGRADIENT WELLS	10	The second secon
6	SAMPLING PLAN	U	none
	SAMPLING PROCEDURES	U	samples are not being collected
MONITORING SYSTEM	LAB CERTIFICATION		THE THE CHILD STATE OF THE STAT
=	RECORDS	U.	No sample esults
Ó	REPORTING	U	No Sample Data Submitted
≊	Inspection Log	U	weeklying pections are not being confinitely
			Cortin te-
S	DRILLING PERMIT NUMBERS		Sa Below
SII	WELLS NUMBERED/IDENTIFIED	U	The XXXX (7) wells located were not wimbered
25	LOCKS/INTEGRITY	M	The 7 wells were lated - No keys available
	ABANDONMENT PLAN	NI	TO TOO TO THE TO THE S CHO. LABOR
	ELEVATION INFORMATION		
85	WATER LEVEL MEASUREMENT		
LYSIMETER/ INITORED WEI	TURBIDITY FREE		
Q	SUFFICIENT YIELD		
	CLASSIFICATION	1	manitoring wells
	PERC/LEACHING PROBLEMS	1	M :- 1 16 THE WELLS
NIC	SOLVENTS/REPAIRS MADE	NA	Mw-1 26-04003-6 Mw-2 26-05004-4
<b>-</b>	MAX, PRESSURE & VOLUME	1	MW-2 26-08004-4 MW-3 26-08005-2
	CLOSEST USDW/SUPPLY WELLS		mw-4 26-08006-1
	MOUND INTEGRITY/COVER	1.1	MW-5 26-05007-9
	LINING INTEGRITY	$\Lambda$	* Mui-6 26-08008-7
品人	EMBANKMENT INTEGRITY	-1	1 1410-16 20 - CACCAS - 1
- ₹	LEACHATE COLLECTION SYS.	NA	+ the well policed to be mu continet
Ξ	SOLIDS BUILDUP/REMOVAL	1	ne (care) - Ready dend = Led by
ğ	HEIGHT TO FREEBOARD	1	constructions crew installing to
IMPOUNDMEN	APPEARANCE	1	Methave Recovery system
		V	111 A 112 A COURT OF STORES
_	EVEN DISTRIBUTION	Λ.	
APPLICATION/ AY SYSTEM	PONDING/RUNOFF/EROSION		
高貴	SPRAY HEADS		
강되	DISCING		
그의	COVER CROP	NA	
불기	APPEARANCE		
SPRA	BUFFER ZONE		
S S	SLUDGE STOCKPILED		
J [			
		V	
日日	SEEPAGE/LEACHING	NA	,
핕	ODOR/AEROSOLS	U	Methane VENting up through course - Recovery
0	FLOW MONITORING/RECORDING	NA	System is being installed
•			System of monalizer





# Etate of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT

2 BABCOCK PLACE WEST ORANGE, NEW JERSEY 07052

(201) 669-3900

February 28, 1990

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mayor and Council Town of Kearny 402 Kearny Avenue Kearny, NJ 07032

Re: Compliance Evaluation Inspection MSLA 1-D Kearny Landfill NJPDES No. NJ0051837 Kearny/Hudson County

#### Gentlemen:

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on January 10, 1990. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "UNACCEPTABLE" due to the following deficiencies:

- 1. The permittee is not sampling the six (6) ground water monitoring wells and submitting Monitoring Report Forms as required by Part 1, Page 7, condition g(1) of the site's NJPDES permit.
- 2. The permittee has not submitted a plot plan of the site including the location of all ground water monitoring wells and methane gas vents as required by Part II, Page 1, conditions 3(a) of the site's NJPDES permit.
- 3. The permittee is not conducting weekly inspections of the monitoring wells or maintaining an inspection record as required by Part II, Page 3, condition 9 of the site's NJPDES permit.

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- 4. The permittee has not delineated all leachate discharges to the surface waters of the state as required by Part II. Page 4, condition 18 of the site's NJPDES permit.
- 5. The four (4) wells located during the inspection did not have well permit numbers attached to the casing as required by Part I, Section 10 and Part II-F, section 8 of the site's NJPDES permit.
- 6. The permittee failed to report the damage to Monitoring Wells 1,2,5 and 6 as required by Part II-F, Page 2, condition 10 of the site's NJPDES permit. Monitoring wells 1 and 2 have bent casing that may cause sampling difficulties, Monitoring Wells 5 and 6 could not be located during the inspection and are believed to have been accidentally demolished.
- 7. Contaminated run off and leachate from the landfill collects in several locations around the base of the landfill and discharges to the land and surface waters of the State. This discharge is a unpermitted discharge to the land and surface waters of the State. The Town of Kearny must cease this discharge.
- 8. The permittee has failed to repair or replace the damaged wells as required by Part 1, section 10 and Part II-F, section 10.c of the site's NJPDES permit. Unusable wells must be sealed as required by Part I, section 10 of the permit.
- 9. The permittee failed to submit a completed permit renewal to the Department 180 days prior to the expiration date of the permit as required by Part I, section 2.A.

Deficiencies 1 through 5 were noted in the directive letters to the Town of Kearny dated February 10, 1988 and February 10, 1989. The Town of Kearny has failed to correct these deficiencies as stated in Mr. Norman Doyle's letter dated March 20, 1989. Deficiencies 6 and 7 were noted in the directive letter to the Town of Kearny dated February 10, 1989. The Town of Kearny has failed to correct these deficiencies as stated in Mr. Joseph E. Neglia's letter to the Department dated March 20, 1989.

The deficiencies noted above have placed your facility in significant violation of the terms and conditions of your NJPDES permit and/or the Water Pollution Control Act Regulations (N.J.A.C. 7:14A-1 et seq.). You are therefore directed to institute corrective measures. A written report concerning specific details of remedial measures to be instituted, as well as an implementation timetable, must be submitted to this Department and USEPA, Permits Administration Branch, within thirty (30) calendar days of the date of this correspondence.

THEOLIN

You are advised that the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) provides for substantial monetary and criminal penalties in cases of permit violations.

Please direct all correspondence and inquiries to Deborah R. Ford, the Environmental Specialist responsible for this case, who can be reached at (201) 669-3900, or by letter through this Bureau.

Stefan D. Sedlak

Section Chief

Landfill/UST's Enforcement Section

Metro Bureau of

Regional Enforcement

#### E14:G26

c: Chief, Permits Administrative Branch, USEPA

Mr. Patrick M. Durack, USEPA

Mr. Edward Grosvenor, H.O.

Mr. Barry Sutherland, P.E. Neglia Engineering Asso.

BC: ZAHEER HUSSAIN JAMES LYKO LENTRAL FILE



#### NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029, Trenton, NJ. 08625



#### DISCHARGE SURVEILLANCE REPORT

PERMIT • NJO251837 NO. OF DISCHARGES 6 MW CLASS
DISCHARGER MSLAID Kenny Land S.II
OWNER Town of Kearny
MUNICIPALITY Kearny COUNTY HUDSON WATERSHED CODE
LICENSED OPERATOR & PLANT CLASS
TRAINEE/ASSISTANT OTHER INFO.(201) 939-8805  (Neglia)
DEFICIENCIES OR COMMENTS (D) Moi. Lar Well's are not bein completand  Monitoring Remot - Gornson not being submitted (2) weekly  well importions are verticendented and Trispectin Remot Maintening  (3) Damage - towalls 172, Sand 6 not Reported. (D) Damagel  well's have not been replaced. (B) well's "not numbered  (C) Plot plan has not been submitted (D) Goodhate discharges:  Marinot been delineated. (B) Permit revend has not been  Submitted. (G) Unparmitted discharge of leach to to Candle and Surface wenters of the 5-to-te.  OVERALL RATING. (C) Acceptable. (C) Conditionally Acceptable.
EVALUATOR Deborah R. Ford TITLE Environmental Specialist INFORMATION FURNISHED BY (Name) Barry Sutherland P.E.  (Title) Director of Engineering (Organization) Neglia Engineering Asso.

## NEW JE Y DEPARTMENT OF ENVIRONMENTAL PROTE "ON DIVISION OF WATER RESOURCES CN 029, Treaton, N.J. 08623

Page 2 of 3 (G)

Permit # (2)5/5/37
Date 1/10/90

#### DISCHARGE SURVEILLANCE REPORT

	GRO	UND W	ATER DISCHARGE EVALUATION	∤.
RAT			J = Unsatisfactory NA = Not Applicable	1
+		RATING	COMMENTS	1
	TYPE DGW	-	Lund-Fill locabate	! 1
i .	RCRA FACILITY	NA		1
	DISCHARGE NUMBER	NA		ļ
CENERAL	WASTEWATER SOURCE/FREQ.	T -	Leuchate	1
E .	PUMPS AND PIPING	NA		
E E	ALTERNATE POWER/ALARM	NA		
ပ	BYPASS	NA		
				1
		1		1
	WATER SUPPLY/MONITORING	NH		1
3	AQUIFERS MONITORED		Organic Mat. Clays of the Hackingsale Modera	
STEM	UPGRADIENT WELLS	U	wells are not numbered and before weather cops	ļ
5	DOWNGRADIENT WELLS	U	2 of 4 wells were the continued be	
Σ	SAMPLING PLAN	U	No sempling in being conducted	
MONITORING	SAMPLING PROCEDURES	U		!
2	LAB CERTIFICATION			
2	RECORDS	U	No Monitar Proports or Inspection Log	
Ž	REPORTING	()	Monte Reports over not he in Exposition	
웃	Enspection Lug	$\overline{U}$	whichly importants are not being composited	1
_	Enspecties 209	1. ~		
	DRU I DIC DEDICE MEDITERS	1	See Below	
9	DRILLING PERMIT NUMBERS WELLS NUMBERED/IDENTIFIED	U	Wells Not Numbered	
	WELLS NUMBERED/IDENTIFIED	+_	an four weiter undated for comply by E.P.A.	
田田	LOCKS/INTEGRITY ABANDONMENT PLAN ELEVATION INFORMATION WATER LEVEL MEASUREMENT TURBIDITY FREE	NE	Chi tolly leading the same	
130	ABANDONMENT PLAN	1-21-	monder wells	
돌꽃	ELEVATION INFORMATION	<del>    -   -  </del>	mw1 26-08003-6	
12 X	WATER LEVEL MEASUREMENT	+	mw 2 26 - 25-001-4	
ᆜᆽ	TURBIDITY FREE	<del>                                     </del>	mw3 26-05005-Z.	
≚.	SUFFICIENT YIELD	<del>-</del>	Mm. 36 . CX. OOE - 1	
├		NA	mws 26-(18017-9	ļ
	CLASSIFICATION	10/1	MW6 26 CYCCY-7	,
	PERC./LEACHING PROBLEMS	<del>                                     </del>	Quello coud not be located (may have be a colonida	://
목	SOLVENTS/REPAIRS MADE	<del>                                     </del>	2 wells are democified as not be some	2 CD-4
-	MAX PRESSURE & VOLUME	<del>  </del>	- news and complete agreed with the straining	:
	CLOSEST USDW/SUPPLY WELLS	1 1		
	MOUND INTEGRITY/COVER			
5	LINING INTEGRITY	NA		
鱼	EMBANKMENT INTEGRITY	1-1-		
2	LEACHATE COLLECTION SYS.	-	<u>                                     </u>	
MPOUNDMENT	SOLIDS BUILDUP/REMOVAL	-		
ارَّمَا	HEIGHT TO FREEBOARD	<del>                                     </del>		
\ \	APPEARANCE	<del>                                     </del>		
		\ <u>\\</u>		
	EVEN DISTRIBUTION	NA		
Ž	PONDING/RUNOFF/EROSION	<u> </u>	<u> </u>	
EM W	SPRAY HEADS			
≾E	DISCING			
LAND APPLICA SPRAY SYST	COVER CROP			
8;≻[	APPEARANCE			
≾≾	BUFFER ZONE			
보회	SLUDGE STOCKPILED			
<b>≤</b> 1				
ľ				
~	SEEPAGE/LEACHING	U	Local Lake discharges to Su-tra water.	
		-		
OTHER.	ODOR/APROSOLS	U	Methane and Chinix & colors strong on NES Deal	

Form DWR-053 3/81



# NEW JE: ( DEPARTMENT OF ENVIRONMENTAL PROTE THE DIVISION OF WATER RESOURCES CN 029, Treaton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

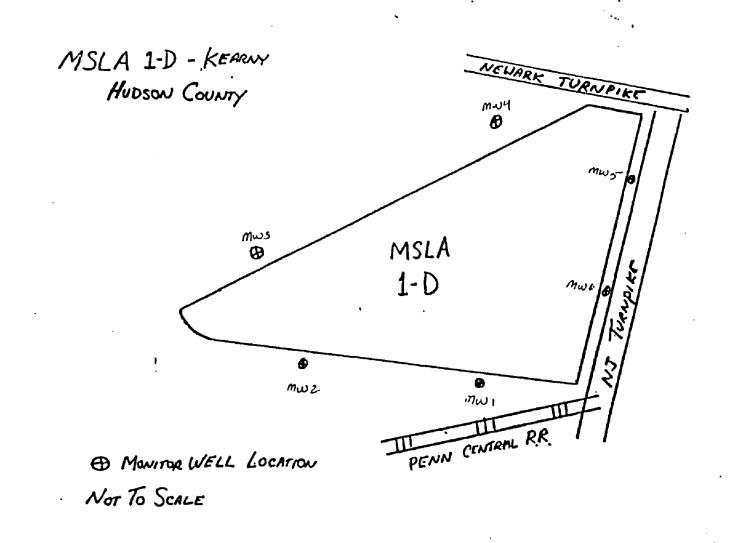
Page 3 of

Permit # 11/5/837

PLANT DIAGRAM AND FLOW SEQUENCE:

See Attrochal Diagram

IS	 SAMPLE!	PERMIT LIMITS	DATA	1	PARA	SAMPLE	PERMIT LIMITS	DATA
				_		ļ		
				—			•	<u>'</u>
	 			_				
					<u> </u>	<del>                                     </del>		
					<u> </u>	<u> </u>		



TIERRA-A-018319



# State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT 2 BABCOCK PLACE

WEST ORANGE, NEW JERSEY 07052

(201) 669-3900

March 8, 1991

### CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mayor and Council Town of Kearny 402 Kearny Avenue Kearny, NJ 07032

Re: Compliance Evaluation Inspection

MSLA 1-D Kearny Landfill NJPDES No. NJ 0051837 Kearny/Hudson County

#### Gentlemen:

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on February 15, 1991. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "UNACCEPTABLE" due to the following deficiencies:

- 1. The permittee is not sampling the six (6) ground water Monitoring Wells and submitting Monitoring Report Forms as required by Part I, Page 7, Condition g(1) of the site's NJPDES permit.
- 2. The permittee is not conducting weekly inspections of the Monitoring Wells or maintaining an inspection record as required by Part II, Page 3, Condition 9 of the site's NJPDES permit.
- 3. The permittee has not delineated all leachate discharges to the surface waters of the State as required by Part II, Page 4, Condition 18 of the site's NJPDES permit.

BAA000C71

New Jersey is an Equal Opportunity Employer

- 4. The two (2) wells located during the inspection did not have well permit numbers attached to the casing as required by Part II-F, Section 8 of the site's NJPDES permit.
- 5. The permittee failed to report the damage to Monitoring Wells 1, 2, 5 and 6 as required by Part II-F, Page 2, Condition 10 of the site's NJPDES permit. Monitoring Well 1 has a bent casing that may cause sampling difficulties, Monitoring Wells 2, 3, 5 and 6 could not be located during the inspection and are believed to have been accidentally demolished.
- 6. Contaminated runoff and leachate from the landfill collects in several locations around the base of the landfill and discharges to the surface waters of the State. This discharge is a unpermitted discharge to the surface waters of the State. The Town of Kearny must cease this discharge.
- 7. The permittee has failed to repair or replace the damaged wells as required by Part I Section 10 and Part II-F, Section 10.c of the site's NJPDES permit. Unusable wells must be sealed as required by Part I, SEction 10 of the permit.
- 8. The permittee failed to submit a completed permit renewal to the Department 180 days prior to the expiration date of the permit as required by Part I, Section 2.A.
- 9. The two (2) wells located during the inspection were not locked and did not have water tight inner caps as required by Part II-F, Section 5 and the Departments monitor well specifications.

Deficiencies 1 through 8 were noted in the directive letters to the Town of Kearny dated February 10, 1988, February 10, 1989 and February 28, 1990. As of this date the Town of Kearny has failed to correct these deficiencies.

The deficiencies noted above have placed your facility in significant violation of the terms and conditions of your NJPDES permit and/or the Water Pollution Control Act Regulations (N.J.A.C. 7:14A-1 et seq.). You are therefore DIRECTED to institute corrective measures. A written report concerning specific details of remedial measures to be instituted, as well as an implementation timetable, must be submitted to this Department and USEPA, Permits Administration Branch within thirty (30) calendar days of the date of this correspondence.

You are advised that the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) provides for substantial monetary and criminal penalties in cases of permit violations.

Please direct all correspondence and inquiries to Deborah R. Cowell, the Senior Environmental Specialist responsible for this case, who can be reached at (201) 669-3900 or by letter through this Bureau.

Failure to fully comply with the above will result in the initiation of enforcement action by this Department. This shall in no way be construed, however, to indicate any exemption on your part from possible penalties for violations indicated by the Compliance Evaluation Inspection as stated above.

Very truly yours,

Stefan D. Sedlak Section Chief

Landfill and Underground Storage Tank Enforcement

Metro Bureau of Regional Enforcement

#### E14:G25

c: Chief - Permits Administration Branch, USEPA

Mr. Patrick M. Durack, USEPA
Mr. Edward Grosvenor, Health Official
Mr. Barry Sutherland, Neglia Engineering Associates
Mr. Scott Tyrell, BAP

#### Enclosure

bc: Zaheer M. Hussain, Enforcement James Lyko, Criminal Justice Central File



# NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029, Trenton, N.J. 08625



#### DISCHARGE SURVEILLANCE REPORT

PERMIT # NJ0051837 NO. OF DISCHARGES 6 MW CLASS
DISCHARGER MSLA ID KEARNY LANDS!
OWNER Town of Kearny
MUNICIPALITY LOCAL COUNTY HUGON WATERSHED CODE
LOCATION Newsek-Jersey City turnpike (Between 280 and NU Turnpike)
RECEIVING WATERS Grandwater STREAM CLASS
LICENSED OPERATOR & PLANT CLASS
TRAINEE/ASSISTANTOTHER INFO. (201)939-8805 (Weglia
DEFICIENCIES OR COMMENTS i) Manifer Wellbare not being sampleeland.
Monitoring Report Sorms have not been submitted, 2) weekly
well inspections have not been conducted and inspection Record has
not bearing lained. 3) Damage to Monitor Wells 1, 2, 5 pourle
was not reported 4) Daniere well's have not been replaced, 5) wells
are not wumbered or locked, B) Leachate discharges have not.
bendeliert 1) Permit renamed has not been submitted.
8) Unperintel discharge of leadate to the land and surface
westersof the state.
OVERALL RATING
EVALUATOR Johnsh R. Cowell TITLE S. Environmental Sparialist
INFORMATION FURNISHED BY (Name) Barry & Albertand P.E.
(Title) Director of Engineering (Organization) Neglia Engineering ASSO.
DATE OF INSPECTION February 15, 1991

#### DEPARTMENT OF ENVIRONMENTAL PROTECT I DIVISION OF WATER RESOURCES CN 029, Treaton, NJ. 08625

Page 2 of 3 (G)

Permit # 1005 1837

Date 2/15/91

DISCHARGE SURVEILLANCE REPORT

-	GRO	UND W	TER DISCHARGE EVALUATION
ATI			J = Unsatisfactory NA = Not Applicable
		RATING	
	TYPE DGW		Land Fill leachate
Ī	RCRA FACILITY		
4	DISCHARGE NUMBER		
CHNEKA	WASTEWATER SOURCE/FREQ.		Leachate
₹ [	PUMPS AND PIPING	NA	
鱼	ALTERNATE POWER/ALARM		
3	BYPASS		
t		1/	
- 1		V	
	WATER SUPPLY/MONITORING	NA	
<b>∑</b>	AQUIFERS MONITORED		Organic Mat + Claus at the Hackensock Meacons
SYSTEM	UPGRADIENT WELLS	U	20h Guella were located - I had a bent casing
8	DOWNGRADIENT WELLS	0	Both were not wumberelack or onet have me
	SAMPLING PLAN	U	No sampling ; being conducted caps
보 t	SAMPLING PROCEDURES	TU	
2	LAB CERTIFICATION	-	
MONITORING	RECORDS	10	No Man. Landa Reports or Inspection Procured
Z	REPORTING	10	Monter Report Servis one not being submite
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	ABANDONMENT PLAN	1//-	mw 1 26-08003-6
ES.	ELEVATION INFORMATION	<del>                                     </del>	MW2-26-08004-4
	WATER LEVEL MEASUREMENT	+	MW3 26 -08005-2
	TURBIDITY FREE	1 1.	MW4 26 -08006-1
ž	SUFFICIENT YIELD	<del>                                     </del>	MW5 26 -08007-9
	AT A COSTROL STOLE	NA	
	CLASSIFICATION	1.01/	
	PERC/LEACHING PROBLEMS	+	
3	SOLVENTS/REPAIRS MADE	+ + -	
_	MAX, PRESSURE & VOLUME	+++-	
	CLOSEST USDW/SUPPLY WELLS	+-₩-	
	MOUND INTEGRITY/COVER	NA	77.744
¥	LINING INTEGRITY	100	
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Ē	LEACHATE COLLECTION SYS.	+-+	
3	SOLIDS BUILDUP/REMOVAL	+	
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<b>&gt;</b>	EVEN DISTRIBUTION	+ ~! <sup>7</sup>	
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26	DISCING	+ +	
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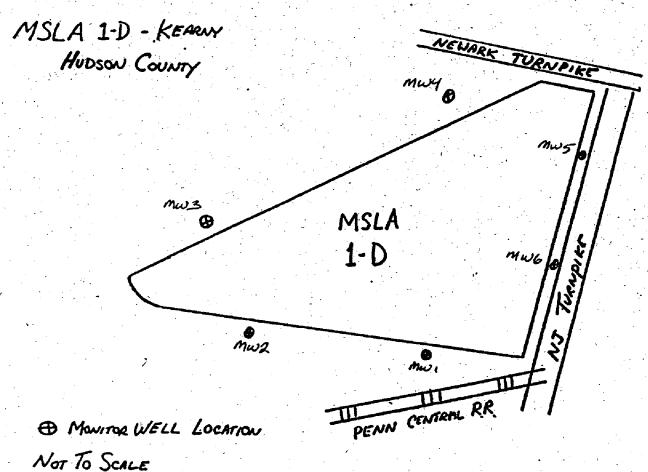
DEPARTMENT OF ENVIRONMENTAL PROTECTION OF WATER RESOURCES

DISCHARGE SURVEILLANCE REPORT

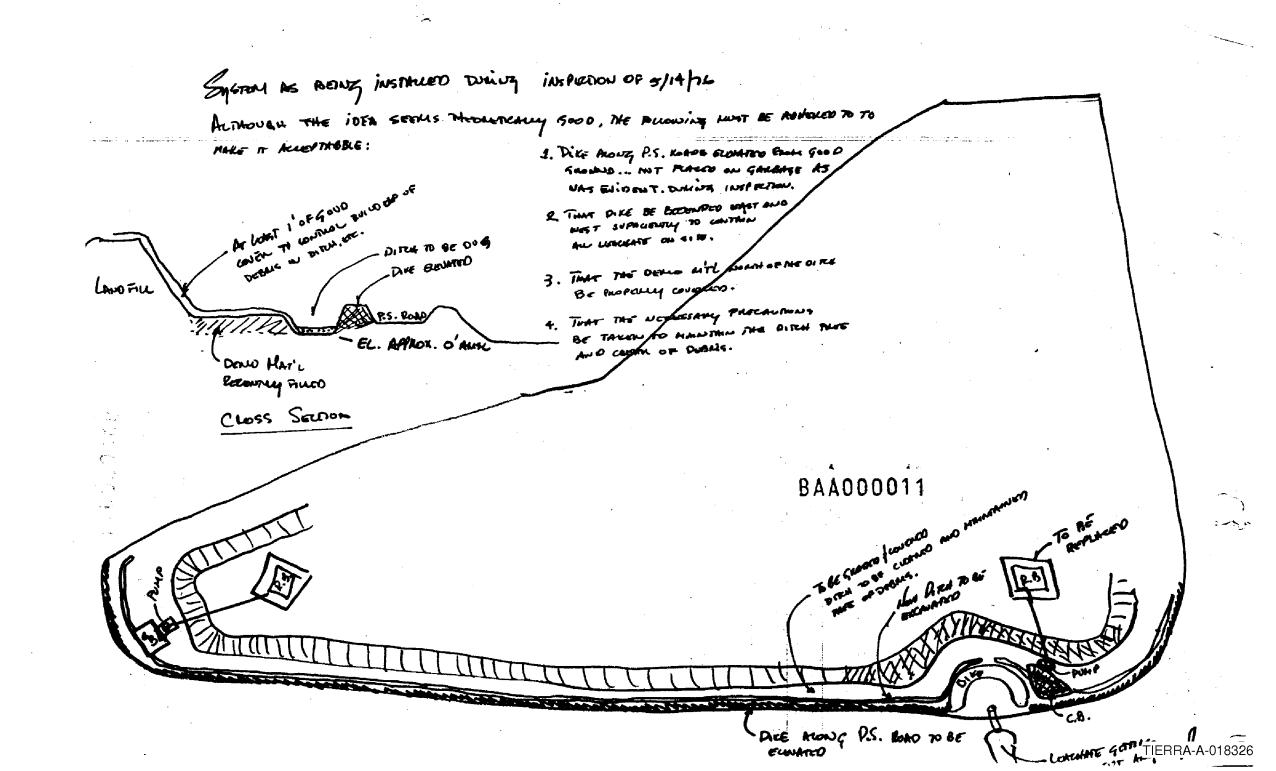
CN 029, Trenton, N.J. 08625

Page 3 of 3

DIAGRAM AND FLOW SEQUENCE:



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## BAA000011



#### Hackensack Meadowlands Development Commission

1099 WALL STREET WEST . LYNDHURST, NEW JERSEY 07071 . (201) 935-3250

PATRICIA Q. SHEEHAN Chairman

WILLIAM D. McDOWELL Executive Director

June 18, 1976

Mr. Roger Generazzo Municipal Sanitary Landfill Authority 1500 Harrison Avenue Kearny, New Jersey

RE: MSLA, FILE 71-175

Dear Mr. Generazzo:

On June 17, 1976, this Office conducted inspections of the MSLA Sites I-A, I-C and I-D, in Kearny. Based on the above, this Office found the following disturbing conditions:

(1) All work has ceased on the drainage and leachate control system along the southerly property line of Site I-D. Specifically, since our last joint inspection, no further covering of the slopes or drainage area has been completed. In addition, the new drainage ditch has been only partially dug and abandoned. Further, the clean fill piled up just south of the new ditch is ineffective as diking, since it is dumped directly over the demo fill. As a result, leachate continues to escape the site through the demo material, and by way of ditches that have been dug to the property south of the PSE&G right-of-way.

We anticipate that work will immediately resume in order that this problem may be corrected as soon as possible.

(2) Active filling on Site I-C has progressed to the easterly slope of the site, along the PSE&G powerline right-of-way. However, the required 50' plateau is not being maintained along that slope and the stakes marking the setback

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have been removed. Therefore, you are hereby ordered to cease all dumping in the vicinity of the east slope, to immediately stake out a 50' wide plateau from the top of the existing slope and to adhere to the required setbacks during all future filling.

Further, enclosed is a copy of the approved complaince schedule which has been marked to indicate those additional items with which this Office has found deficiencies. We anticipate that you will give all these items your prompt attention in order that they may be resolved as soon as possible.

If there are any questions, please do not hesitate to contact this Office.

Sincerely,

OFFICE OF THE CHIEF ENGINEER

GEORGE D. CASCINO, P.E., P.P.

CHIEF ENGINEER

MA/jo

cc: Dennis Backus, P.E.
 Kenneth D. McPherson, Esq.
 Mark L. First, Esq., DAG

#### THOSE DEADLINES UNDERLINED HAVE NOT BEEN MET

#### MUNICIPAL SANITARY LANDFILL AUTHORITY COMPLAINCE SCHEDULE

START	DEADLINE COMPLETE	SITE I-A
	4/1/76	Bimonthly to 1/1/79 - Water Sampling (bi-monthly)
2/1/76	7/1/76	Complete final cover (2') entire site should be completing.
2/1/76	7/1/76	Construct and/or recondition swales for drainage should be completing.
	8/1/76	Seed entire site
:	1/1/77	Install methane vents - should be starting.
	1/1/77	Submittal of diking plan, if necessary.
		SITE I-D
IMMEDIATE	IMMEDIATE	Water and methane sampling (monthly)
2/1/76	3/1/76	Re-install leachate pumps 1 and 2 pump on southwest corner removed.
2/1/76	3/1/76	Construct collection and recharge basins - must be reconditioned.
2/1/76	7/1/76	Construct barrier berms.
	7/1/76	Site shall become <u>Inactive</u> .
2/1/76	7/1/76	Final covering shall be complete (2') - not started.
2/1/76	7/1/76	Construct new south swale and ditch - has been abandoned
2/1/76	8/1/76	Install methane vents - not started
7/1/76	9/1/76	Seed entire site.
	DEADLINE	SITE I-C
IMMEDIATE	IMMEDIATE	No filling within 200' of P.S.E. & G Company right-of-way (50' plateau) or within limits of HMDC Sawmill Park Landfill Extension. (both limits should be staked immediately) Has been violated shall be re-staked and maintained.
2/1/76	3/1/76	Clean drainage ditch along Belleville Turnpike side of site - only started recently.
	4/1/76	Water sampling (monthly)
2/1/76	4/1/76	Block all drainage pipes under P.S.E.& G. towers

#### MUNICIPAL SANITARY LANDFILL AUTHORITY COMPLIANCE SCHEDULE CONTINUED

START .	COMPLETE	SITE I-C
3/1/76	4/1/76	Install leachate pumps (along P.S.E. & G side) construct collection and recharge basins.
3/1/76	4/1/76	Construct dikes 3 & 5 (P.S. side-south and north of site).
4/1/76	6/1/76	Construct flood gates 1,2,3,&4 (southeast corner under P.S. line for Belleville Ditch)
2/1/76	7/1/76	Construct swales P.S. side (clean ditch?)
	7/1/76	Construct new bridge from Belleville Pike.
6/1/76	7/1/76	Install leachate pumps #3 & #4 (Dike #6 at north tip should be complete - no deadline established).
	9/1/76	Methane samples - monthly
	1/1/77	Revised topos due.
2/1/76	1/1/77	Install methane vents
4/1/76	4/1/77	Elevate dike #4 (or construct new dike on property)
4/1/76	4/1/77	Construct Dikes 1 & 2
9/1/76	5/1/79	Construct barrier berm (Belleville Side)
	5/1/7 <del>9</del>	Construct barrier berm (P.S.E.&G Side)

# THE DEADLINES INDERLINED HAVE NIT BEEN HET .

#### COMPLIANCE SCHEDULE (MSLA)

#### Deadline

START	6 HPLETE	SITE I-A
	4/1/76	Bimonthly to 1/1/79 - Water Sampling (Bi-Monthly)
2/1/76	7/1/76	Complete Final Cover (2') Entire Site SHOULD SE COMPLETING
2/1/76		Construct and/or Recondition Swales for Drainage Should be completing
	9/1/76	Seed Entire Site
	1/1/77	Install Methane Vents SHOULD BE STAPTING
	1/1/77	Submittal of Diking Plan, if necessary.

#### SITE I-D

HHEDIATE	Immediate - Water and Méthane Sampling (Monthly)
2/1/76	3/1/76 Re-install leachate pumps 1 and 2 PUMP ON SOUTH-WEST CORNER PELLOUSD
2/1/76	3/1/76 Construct Collection and Recharge Basins Wast DE RECONDITIONED
2/1/76	7/1/76 Construct Barrier Berms
	7/1/76 Site shall become <u>Inactive</u>
2/1/26	7/1/76 Final covering shall be complete (2') Nor STANTED
	- 1 A A A D O U S D

#### **DECLARATION STATEMENT**

#### REMEDIAL ACTION PLAN

#### MSLA 1D LANDFILL SITE

#### SITE NAME AND LOCATION

MSLA 1D Landfill Site located in the Town of Kearny, Hudson County, New Jersey

#### STATEMENT OF BASIS AND PURPOSE

This Remedial Action Plan presents the selected on-site remedial action for the MSLA 1D Landfill Site located in the Town of Kearny, Hudson County. The investigations which led to this Remedial Action Plan were developed pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11a et. seq. (Spill Act). This Remedial Action Plan explains the factual and legal basis for selecting the remedy for this site.

The information supporting this remedial action decision is contained in information repositories which have been established for this site. This Remedial Action Plan contains a Declaration Statement and Decision Summary.

#### ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this Remedial Action Plan, present an unacceptable risk to public health, welfare, and the environment.

### DESCRIPTION OF THE SELECTED REMEDY

The remedial actions described in this document for on-site contamination are divided into two operable units. The first will address landfill leachate. Contaminated leachate has been identified as posing the greatest threats to the human health and the environment. In order to stop the uncontrolled flow of leachate from the landfill into the ground water and adjacent wetlands, a subsurface barrier wall with a leachate collection system will be constructed. The barrier wall will contain the leachate within the footprint of the landfill and a collection system will convey it to the sewage treatment plant for disposal.

This second operable unit will involve capping of the landfill in order to minimize leachate production, manage landfill gases, and to encapsulate contaminated materials on the landfill. The cap will include a methane gas collection system and storm water management controls.

The major components of the proposed remedial actions include the following:

• Construction of a subsurface barrier wall around the landfill to contain leachate.

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- Construction of a leachate collection trench on the inboard side of the barrier wall to convey leachate to pump stations and the sewerage treatment plant.
- Regrading of the landfill to promote stormwater runoff.
- Covering the waste materials with an impermeable, solid waste type cap.
- Implementation of storm water management and soil erosion controls.
- Collection of landfill gas under the cap for processing or flaring.
- Fencing and posting of the site.
- Long-term performance monitoring and maintenance of the remedy to insure its
  effectiveness.

### **DECLARATION OF STATUTORY DETERMINATIONS**

The selected remedy is protective of human health and the environment and complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial action. The remedy will employ technologies that are routinely used at landfills in the area, and throughout New Jersey. Once implemented, the goals of the remedy will be achieved immediately. The most cost-effective methods and materials that meet design criteria will be utilized. Construction controls will also be put into practice that to minimize impacts to the surrounding community and the environment.

Richard J. Gimello, Assistant Commissioner

Site Remediation Program

New Jersey Department of Environmental Protection

#### **DECISION SUMMARY**

#### MSLA 1D LANDFILL SITE

#### 1. INTRODUCTION

This Remedial Action Plan presents the selected remedy for onsite contamination at the MSLA 1D Landfill Site located in the Town of Kearny, Hudson County. This document is issued by the New Jersey Department of Environmental Protection (NJDEP) and presents the factual and legal basis for the actions proposed herein to address contamination at the site.

This Remedial Action Plan is being issued under the authority of: N.J.S.A. 58:10-23.11a et. seq., entitled the Spill Compensation and Control Act; N.J.S.A. 58:10B-1 et. seq. concerning the remediation of contaminated properties; and N.J.S.A. 58:10A-1 et. seq., entitled the Water Pollution Control Act. The remedy presented in this Plan was developed pursuant to N.J.S.A. 13:1E-1 et. seq., entitled the Solid Waste Management Act, and in accordance with: N.J.A.C. 7:26-2A et. seq. which governs the closure and post-closure care of sanitary landfills, and N.J.A.C. 7:26E, entitled Technical Requirements for Site Remediation, which governs the selection of remedial actions. The remedy selected in this Plan is, to the extent possible, in accordance with the Federal National Oil and Hazardous Substances Contingency Plan (NCP), 40 C.F.R., Part 300

The information supporting this remedial action decision is contained in the record repositories for this site. This Remedial Action Plan contains a Decision Declaration and a Decision Summary.

#### 2. SITE DESCRIPTION

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The MSLA 1D Landfill is located near Exit 15 W of the NJ Turnpike, at 1500 Harrison Avenue, in the Town of Kearny, Hudson County (Figure 1). It is situated primarily on a 93.8 acre tract of land designated as Block 285, Lot 2, which is owned by the Town of Kearny (Figure 2).

The MSLA 1D Landfill lies within an area classified as the Hackensack Meadowlands District. Within the District are over 400 acres of wetlands that provide valuable habitat for a wide variety of fish and wildlife species. They also provide for flood control, filtering of pollution, recreation, and educational opportunities. Development within the District is governed by the Hackensack Meadowlands Reclamation and Development Act. The Hackensack Meadowlands Development Commission (HMDC) has planning and zoning authority within the District to the end of promoting a balance between economic growth and the environment. The landfill property is currently zoned SU-3, Special Use. SU zoning is designed to accommodate special uses of regional importance.

The landfill property is triangular in shape. It is vacant except for a landfill gas recovery and processing facility operated by GSF Energy, Inc, a Division of the EcoGas Corporation. The landfill is boarded on the east by wetlands, a TRANSCO gas pipeline easement, and the NJ

Turnpike Passaic River Viaduct. To the south are PSE&G and TRANSCO gas pipelines and a wetland that is connected to the Passaic River by culverts under NJ Transit Rail Lines. Wetlands and a NJ Department of Transportation right-of way bound the northwest side of the triangular lot. On the west side, the adjacent property is being used for storage of heavy and construction equipment.

Dark-colored, odorous leachate can be observed flowing from seeps in the landfill into adjacent wetlands on the south and east sides. On the north side, leachate seeps discharge along the curbline of Harrison Avenue. The flow of leachate out of the landfill is estimated to be several hundred thousand gallons per day. Leachate contaminated water in the wetlands is free to flow through a culvert on the south side of the site into the Passaic River which flows into the Newark Bay. The distance from the Passaic River to the site is less than 1000 feet.

GSF Energy, Inc. operates a number of gas extraction wells on top of the landfill. Gas is piped from the wells to their plant at the toe of the landfill, processed, mixed with gas extracted from other nearby landfills, and then conveyed along the eastern side of the landfill to a connection with a Public Service Gas and Electric Company Pipeline.

Subsurface conditions at the site can be described in terms of six strata. The refuse fill material rises some 110 feet above the surrounding land. Under the refuse is a thin stratum of organic peat which is considered to represent the original wetland soils. Based on soil boring information, the organic peat is underlain by a gray sand stratum which is 20 to 30 feet thick. Below this is a stratum of finely-layered (varved) sand and silt, approximately 25 feet thick, which is underlain by a stratum of clayey silt, sand and gravel, approximately 20 feet thick. Underlying the overburden soils is red brown shale bedrock (e.g. the Brunswick Formation).

Presently, ground water usage in the area is limited to industrial purposes. All municipalities within 3 miles of the site draw their drinking water from the Wanaque Reservoir, located in northern Passaic County, or from other reservoirs. There are nine industrial wells within 3 miles of the site, the nearest being approximately 0.8 mile southwest. This later well withdraws water from the stratum overlying the bedrock. Seven other wells within a 3-mile radius of the site draw water from the Brunswick Formation. Reported yields of these wells are as much as 600 gallons per minute (gpm), and the median yield is reported to be 100 gpm.

### 3. SITE HISTORY AND ENFORCEMENT ACTIVITIES

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A 1955 topographic map and aerial photographs from 1961-1962 of the area around the site show it to be primarily wetlands. A 1971 aerial photograph shows landfilling of construction and demolition debris in the southwestern portion and sanitary waste in the northeastern portion of the site. Portions of the site have been filled to accommodate connections between Route I-280 and Harrison Avenue. In the 1970s, the landfill property was leased by the Town of Kearny, who owned the land, to the Municipal Sanitary Landfill Authority (MSLA). In 1977, the MSLA obtained Certificate of Registration No. 0907C from the NJDEP allowing the site to be used for landfilling. By 1978, aerial photographs show that the majority of wetlands had been filled. It is

documented that more than 4 million tons of solid waste were disposed at the landfill between 1977 and 1979, at which time it was closed. A significant volume of waste oil, estimated at approximately 1.5 million gallons, was also disposed of in the landfill. In addition, a variety of industrial-type wastes were reportedly disposed of and are listed as follows:

Sludge Waste (unknown content)
Pharmaceuticals
Plastic Resins (solid)
Activated Charcoal Sludge
Construction Debris

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Wet Gas Scrubber Sludge Filter Cake (lime-based) Asphaltic Bottoms Filter Cake (sewer sludge) Fuel Oil Dredge Material Insecticides Deodorants Wax (solid)

The landfill was reopened again between 1981 and 1982, but was never properly closed. The final cover was insufficient and the leachate collection and monitoring systems were not operating. Throughout its operation of the landfill, the MSLA was cited with various violations. Under administrative order from the NJDEP the landfill ceased operations in 1982 due in part to the fact that it had reached its maximum allowable height and that the MSLA had failed to maintain the leachate collection system.

Since the end of the 1980s up to the present, GSF Energy, Inc has operated a landfill gas extraction and processing facility at the site. In addition to processing gas from the 1D Landfill, gas is extracted and piped to the facility from two other MSLA Landfills nearby. Once processed, the gas is piped along the eastern side of the landfill and into a PSE&G pipeline line in the southeastern corner of the site.

There have been a number of problems at the landfill since it ceased operations 1982. In 1987, a NJDEP site inspection observed large, open cracks in the top of the landfill. There was immediate concern that a possible slope failure was underway. Monitoring and slope stability analyses by the State, PSE&G and the New Jersey Turnpike Authority lead all to conclude that the landfill was stable and surface cracks were due to internal settlement. Later, in 1995, a fire developed at the site covering a 10 to 20 acre area. The Town of Kearny estimated their cost to extinguish the fires at up to \$500,000 and requested State aid from the Governor. Vegetation at the site is not mowed or maintained and the potential for fires is always present.

In 1986, the USEPA's contractor, Malcolm Pirnie, Inc, performed a Preliminary Assessment of the site. The Report recommended a site inspection to assess the quality of the leachate. In 1990 the USEPA's contractor, NUS Corporation, performed sampling and investigations and issued a Site Investigation Report. The findings of this Report are summarized in Section 5 of this Remedial Action Plan.

Berms are present along the toe of the landfill on all sides. Apparently, these were constructed by MSLA to contain leachate seepage out of the landfill. Leachate would pond behind the berms and then be pumped up onto the landfill or discharged into wetlands flowing into the Passaic River. Since the MSLA ceased operations at the landfill, the leachate overflows the berms into the adjacent wetlands.

Due to lack of a viable party at this time to undertake the proper closure measures, the NJDEP is proceeding to perform the work described in this Remedial Action Plan using public funds.

#### 4. PUBLIC NOTICE

The NJDEP has provided public notice in the Jersey Journal newspaper of its intent to remediate the site. A toll-free telephone number and mailing address is provided for questions and further information.

The selection of the remedy in this Plan is based on three key documents: (1) "Potential Hazardous Waste Site Preliminary Assessment", dated May 22, 1986, by Malcolm Pirnie, Inc; (2) "Final Drast Site Inspection Report", dated June 29, 1990, by the NUS Corporation, which provides background information and the results of sampling at the site; and (3) "Background Investigation and Design Recommendation Report", dated July 1999, by Louis Berger and Associates, Inc, which also provides background information and describes the remedial measures to be implemented. These documents, and other site-related information, can be found at the following location:

New Jersey Department of Environmental Protection P.O. Box 413, 401 East State Street Trenton, New Jersey 08625-0413 Contact: Ms. Mindy Mumford, Community Relations Coordinator

**Bureau of Community Relations** 

Phone: 1-800-253-5647

The NJDEP has also established information repositories that contain the most important siterelated documents at the following locations:

Kearny Public Library
318 Kearny Avenue
Kearny, NJ
Contact Nancy Smith, Reference Librarian
201-998-2666

Hackensack Meadowlands Development Commission
One DeKorte Park Plaza
Lyndhurst, NJ
Contact Mr. Thomas R. Martarano, Director of Solid Waste and Engineering
201-460-1700

The NJDEP encourages the public to review these documents in order to gain a more comprehensive understanding of the site, the activities that have been conducted, and the basis for the remedy selected herein.

#### 5. SITE CONTAMINATION

Information about the nature and extent of contamination at the site can be found in the "Final Draft Site Inspection Report", dated June 29, 1990, by the NUS Corporation (NUS). NUS personnel collected ground water, surface soil, surface water, sediment, and leachate samples for the US Environmental Protection Agency. Samples were analyzed for priority pollutant organic chemicals and metals.

The Sample Location Map is included as Figure 3. Sampling results from the NUS Report are presented in Tables 1 through 5 and are compared to NJDEP standards.

#### 5.1 GROUND WATER

The aquifers underlying the site are classified as Class II-A in the New Jersey Ground Water Quality Standards (GWQS), N.J.A.C. 7:9-6. Class II-A ground water aquifers are designated as suitable for potable water supply. Hazardous organic and inorganic compounds were detected in the ground water at the site at concentrations above Class II-A GWQS as shown in Table 1.

One ground water sample was obtained from an existing well (Well No. MW-3 in the NUS Report) installed in the shallow, overburden aquifer on the west side of the site. Two volatile organic compounds were detected above GWQS as follows: chlorobenzene at 58 parts per billion (ppb) and total xylenes at 1,100 ppb. Inorganic analyses also detected aluminum, barium, chromium, iron, lead, manganese, nickel, and sodium at levels exceeding GWQS.

The depth to ground water at the site is relatively shallow. Water levels in on-site monitoring wells installed along the base of the landfill ranged from 2.5 to 9 feet below ground surface during the NUS sampling events. This shallow, unconsolidated aquifer is composed of recent organic sediments at the top and glacially deposited material with depth. The shale bedrock aquifer begins approximately 70 feet beneath the ground surface. Although the primary permeability of the shale is low, appreciable amounts of water are found in joints and fractures. The shallow ground water flow direction at the site is radially outward due to the large mound of leachate in the landfill. Shallow ground water discharges locally into adjacent wetlands and surface water bodies. There is no evidence that the landfill was constructed with a bottom liner, therefore, leachate is free to drain out of the waste materials and directly into ground water.

#### 5.2 LANDFILL LEACHATE

Five samples were taken from leachate ponds or seeps along the toe of the landfill. Sample analytical results are presented in Table 2 and compared to New Jersey Surface Water Quality Criteria (SWQC), N.J.A.C. 7:9-4 et seq for Saline Estuary, SE-type waters. Levels of polynuclear aromatic hydrocarbons (ie. pyrene, flouranthene, benzo(a)anthracene, chrysene, benzo(b)flouranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene) were detected at levels above SWQC which are protective of human health. The pesticides beta-BHC, 4-4'-DDD, 4-4'-

DDE, and 4-4'-DDT were all detected in leachate at levels above SWQC which are protective of human health. Analyses for inorganic compounds also detected metals at levels exceeding SWQC for protection of human health or aquatic life including: arsenic at 7.3 ppb, lead at 1250 ppb to 1,250 ppb, zinc at 2360 ppb, chromium at 262 ppb, copper at 490 ppb, and mercury at 2.6 ppb (concentrations are qualified as estimated).

#### 5.3 SURFACE WATERS AND SEDIMENTS

The Passaic River in the vicinity of the site is classified as Saline Estuary (SE) in the New Jersey Surface Water Quality Standards (SWQS), N.J.A.C. 7:9-4 et seq. SE-type waters are designated for the maintenance and migration of fish populations, the migration of diadromous fish, secondary contact recreation, the maintenance of wildlife, and any other reasonable uses.

Only one surface water sample was taken from the wetland on the northeast side of the landfill. Sample analytical results are presented in Table 3. Benzene and chlorobenzene were the only organic contaminants detected, both at concentrations of 3 ppb. Inorganic contaminants were also detected. Arsenic and mercury were detected at levels exceeding saltwater SWQS for the protection of human health. The following metals were also detected at concentrations exceeding saltwater SWQC for the protection of aquatic life: copper at an estimated 1,500 ppb; lead at 1,050 ppb; mercury at an estimated 2.0 ppb; nickel at an estimated 222 ppb; and zinc at an estimated 1,070 ppb.

Sediment samples were taken from two locations as shown in Figure 3. Sample analytical results are presented in Table 4. No promulgated standards exist for sediment quality. Sediment results were compared to published criteria in the "Guidance For Sediment Quality Evaluations", NJDEP, dated November 1998. A sediment sample taken in the wetland northeast of the landfill detected the following semi-volatile organic compounds at levels above "Low Effects Range" screening level where adverse benthic impacts have been observed in 10% of the studies: fluoranthene at 1,700 ppb; pyrene at an estimated 2,400 ppb; benzo(a)anthracene at 1,600 ppb; chrysene at 2,000 ppb; benzo(a)pyrene at 2,200 ppb; indeno(1,2,3-cd)pyrene at 1,800 ppb; and benzo(g,h,i)perylene at 1,600 ppb. Also detected above the sediment screening criteria was the following pesticide 4,4'-DDT at an estimated 67 ppb. Inorganic analyses also detected arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc above NJDEP sediment screening criteria.

#### 5.4 SOILS

Analytical results are available in the NUS Corporation's Site Inspection Report for five surface soil samples taken around the perimeter of the landfill. Table 5 lists the compounds detected and compares them to NJDEP Soil Cleanup Criteria (SCC). The SCC are guidelines used by the NJDEP to determine if remediation is necessary. The non-residential SSC and the SSC for protection of ground water are applicable to the site at the present time. The non-residential criteria were developed to be protective of human health based on an ingestion pathway. The ground water SSC were developed to protect the potability of the underlying aquifer from

contaminants that might leach out of the soils.

Three volatile organic compounds were detected in the soils: chlorobenzene, ethylbenzene, and xylenes. Polyaromatic hydrocarbons (PAHs) were also detected, including benzo(a)pyrene at 750 ppb, which exceeds the SSC for non-residential direct contact. Pesticides were detected including: beta-BHC; 4,4'-DDT, methoxychlor, and 4,4'-DDE. Metals were detected in soil samples including: arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc.

In addition to chemical compounds detected in the soils, previous site investigations have observed wastes on the surface of the site. These include medical wastes, chemical drums, and large tanks.

#### 5.5 Air

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Gaseous emissions from the landfill are controlled to some degree by the gas extraction system in operation on top of the landfill. During site visits by NJDEP personnel in 1999, foul odors were noted in areas where leachate is seeping from the side of the landfill or where it is ponded.

#### 6. SUMMARY OF SITE RISKS

The remedy selection rationale in this Remedial Action Plan follows the Presumptive Remedy approach presented in the USEPA Directive No. 9355.0-49FS, entitled "Presumptive Remedy for CERCLA Municipal Landfill Sites." This streamlined approach, as used herein for municipal landfills, consists of identifying chemicals present in ground water, sediments, and surface water, and comparing them to standards for those media which may be applicable or relevant and appropriate requirements (ARARs). Those chemicals that exceeded ARARs for a given pathway are considered to require remedial action. A detailed calculation of risk factors to human health or the environment was not performed. Under the Presumptive Remedy approach, any contaminant exceeding a chemical-specific ARAR is assumed to result in a site risk.

Tables 1-5 compare the levels of contaminants detected in ground water, leachate, surface water, sediments, and soils with State ARARs. As shown, the ground water quality at the site is contaminated above levels determined to be protective of human health based on potable use. Surface water and sediments in the wetlands are also degraded by landfill leachate above standards established for the protection of human health and/or aquatic life. Actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action selected in this Remedial Action Plan, may present an imminent and substantial endangerment to public health, welfare, or the environment.

### 7. REMEDIAL ACTION SELECTION

This Remedial Action Plan was developed with the goal of attaining the following objectives for on-site contamination:

- Prevent leachate contamination of the ground water above New Jersey Ground Water Quality Standards for Class Il-A aquifers.
- Prevent leachate contamination of adjacent wetlands and surface water bodies.
- Control landfill gas emissions
- · Prevent human or animal direct contact with contaminated materials

The rationale for this remedy selection follows the USEPA Presumptive Remedy approach for municipal landfills. Title 40 C.F.R. Section 300.430(a)(iii)(B) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) contains the expectation that engineering controls, such as containment, will be used where treatment is impracticable. The preamble to the NCP identifies municipal landfills as a type of site where treatment of the waste may be impracticable because of the size and heterogeneity of the contents (55 Federal Register 8704, 1990). Because treatment is usually impracticable for a landfill, containment is considered to be the appropriate response action, or the "Presumptive Remedy." The presumptive remedy for municipal landfill sites consists primarily of the containment of the landfill mass, collection and/or treatment of landfill gas, and measures to control leachate. Use of the presumptive remedy also eliminates the need for an initial identification and screening of remedial alternatives.

Landfill capping upon closure is standard engineering practice in New Jersey. The construction of a subsurface barrier wall in combination with a leachate collection system is a proven method of leachate control at other landfills in the area, such as the MSLA 1A Landfill and the MSLA 1E Landfill. These measures have been constructed by the HMDC and have been operating successfully for several years. The successful implementation and performance of these barrier wall projects in nearby areas of similar geology, with comparable landfills, is a factor in the NJDEP's selection of this remedy.

#### 8. SCOPE AND ROLE OF REMEDIAL ACTIONS

As with many hazardous waste site cleanups, the problems are complex. As a result, the NJDEP has organized the work into two separate actions or operable units.

Operable Unit 1:

Leachate control to mitigate contamination of surface water and ground

water.

Operable Unit 2:

Landfill capping to control gas emissions, prevent direct contact with

contaminated materials, and reduce leachate generation.

Before landfill capping, leachate control measures will be implemented. The landfill is daily discharging thousands of gallons of contaminated leachate into the ground water and the surrounding wetlands. This represents the most visible and direct threat to human health and the environment. Leachate control measures are considered to be a first priority. Also, historically, there has been concern about the stability of the MSLA 1D Landfill. The initial installation of a leachate collection system will allow the landfill to dewater to some degree and increase in stability prior to adding the additional weight of a cap. Excavations for the barrier wall will generate considerable volumes of soil which will be disposed of on top of the landfill and will

require proper grading and capping which will follow under Operable Unit 2 - Capping.

The second operable unit will consist of a low permeability cap over the landfill, including a landfill gas collection system. A cap will control stormwater infiltration into the landfill which results in leachate production. Additional benefits include the control of gas emissions and prevention of direct contact of humans and animals with exposed, contaminated materials. Design of a landfill cap can begin once the leachate control measures are under construction.

Once these measures are implemented, on-site contamination will be contained from impacting off-site areas. Remediation of off-site contamination is not considered in this Remedial Action Plan and will be studied and handled separately, if necessary.

#### 9. REMEDIAL ACTION DESCRIPTION

The two operable units which are proposed for on-site remediation are described in detail in this section.

#### 9.1 LEACHATE CONTROL

A subsurface barrier wall is proposed to enclose the waste material. The wall will be keyed into the varved sand, silt, and clay formation at depths of approximately 50 feet. On the landfill side of the wall, a leachate collection trench will be installed at a level below the off-site ground water table elevation. It will convey leachate contained within the wall to a pump station to be built onsite. From there the leachate will be piped to a pump station at the MSLA 1A Landfill which is owned by the Kearny Municipal Utilities Authority (KMUA). There it will be combined with leachate from the MSLA 1A and MSLA 1E Landfills and disposed of into the sewer system for conveyance to the Passaic Valley Sewerage Commission's (PVSC) treatment plant. These actions will contain, collect, and dispose of the landfill leachate to prevent its migration into off-site ground water and its discharge into surface waters and wetlands.

Construction and quality control requirements for subsurface barrier walls and leachate collection systems are provided in New Jersey Division of Solid and Hazardous Waste Regulations, N.J.A.C 7:26-2A.7. The wall will be keyed into the underlying low-permeability formation to a depth of at least three feet. Based on available geological information, this formation, in combination with the barrier wall, will effectively cut off any lateral or downward leachate migration.

To facilitate construction of the subsurface wall and leachate collection system, clearing and grading of portions of the site will be required. A stable, level, working platform for the equipment used to install the subsurface wall will be constructed around the base of the entire landfill. Upon completion of the wall, this platform will be converted into an access road to allow for operations and maintenance. In addition, a construction laydown area will be established for the processing and storage of barrier wall materials. Excess waste and soils from wall construction and other work will be taken to the top of the landfill, graded out, and covered in accordance with Division of Solid and Hazardous Waste Regulations. This material will be capped when construction of the second

operable unit occurs.

During construction, some wetlands around the site may require filling to allow access for equipment. A wetlands mitigation plan will be developed to address wetlands impacted by the remedial measures.

To further protect human health from contact with contaminated materials on site, the property will be fenced and posted. This will also safeguard the remedial measures from vandalism.

All necessary permits and approvals will be obtained for construction including, but not limited to, those from: HMDC, Hudson-Essex-Passaic Counties Soil Conservation District, State of New Jersey, Kearny Municipal Utilities Authority, Passaic Valley Sewerage Commission, and the Town of Kearny. NJDEP permits include those for wetlands disruption, sewer connection, well drilling, treatment works approval, and landfill disruption.

Post-closure care is required for a minimum of 30 years. Maintenance work would be scheduled at regular, periodic intervals. At a minimum, fencing, monitoring wells, and the leachate collection, pumping and conveyance systems would require periodic inspection. To insure that the barrier wall and leachate collection system, once constructed, continue to function properly over time, a network of monitor wells will be installed on either side of wall. Water levels in wells on either side of the wall will be monitored to insure that an inward hydraulic gradient is developing (after initial installation of the wall) or is maintained (during long-term monitoring). Under these conditions, any leakage through the wall will consist of clean ground water from outside the wall. Locations, parameters, and frequencies for monitoring will be developed in detail during the design of the remedy.

The construction, operation and maintenance, and total present worth (over a 30 year period, using a 5% discount rate) costs for the subsurface barrier wall and leachate collection system were estimated as follows, assuming that the cutoff wall can be constructed of soil mixed with bentonite clay:

Capital Cost	\$ 12,000,000
Annual O&M Costs	\$ 550,000
Total Present Worth Costs	\$ 20,500,000

If, during design, it is determined that physical constraints, such as limited workspace, or the incompatibility of the leachate with the soil/bentonite mixture require the use of more expensive techniques, such as a watertight sheet piling wall or a geomembrane panel wall, the costs are estimated as follows:

Capital Cost	\$ 17,000,000
Annual O&M Costs	\$ 550,000
Total Present Worth Costs	\$ 25,500,000

The construction materials and methods to be used for the subsurface wall will be determined during the design phase. The most cost-effective solutions that meet design criteria will be selected.

#### 9.2 LANDFILL CAPPING

The proposed landfill cap will be a solid waste type cover with a low permeability liner. The existing landfill cap is inadequate as evidenced voluminous amounts of leachate that flow out of the landfill. The New Jersey Division of Solid and Hazardous Waste Regulations, N.J.A.C 7:26-2A.7, require that the final cover system be designed and constructed to minimize long-term infiltration and percolation of liquid into the landfill throughout the closure and post-closure periods, which is not the case at this site. Also, N.J.A.C. 7:26-2A.7 and Federal RCRA Subtitle D Regulations require that the permeability of the cap be less than or equal to that of the bottom liner system or natural subsoils. Once a subsurface barrier wall is installed under the first operable unit, the wall, and the low permeability soils it will key into, will form a bottom liner system with a permeability expected to be no more than 1 x 10<sup>-7</sup> cm/sec. This will require construction of a landfill cap having a similar or lower permeability.

The extent of the cap will be determined during the engineering design phase based on slope stability considerations and cost. Cap construction will be in accordance with the New Jersey Division of Solid and Hazardous Waste Regulations, N.J.A.C 7:26-2A.7 for solid waste type landfills.

There are several components to the landfill cap. Initially the site will be graded to minimize soil erosion and maximize storm water runoff. The construction of the cap will begin with the installation of a gas collection system and a cushioning layer for the overlying liner. A liner, such as a 40-mil synthetic plastic membrane or two feet of clayey soil, will be placed above the gas collection layer to prevent the infiltration of stormwater into the underlying waste. The liner will be chemically compatible with materials it may come in contact with and be able to accommodate stresses caused by settling. Over the liner will be a drainage layer to allow stormwater to drain off of the top of the liner. The uppermost layer of the cap will consist of topsoil capable of supporting vegetative growth. The thickness of the cap above the liner will be sufficient to prevent frost, animal, and root damage to the liner.

In order to manage gases generated by the decay of material in the landfill, the existing gas collection system will be evaluated for compliance with State and Federal requirements. If necessary, further gas extraction wells or other modifications will be made to the system during capping. It is anticipated that the collected gas would be piped to the existing processing plant operated by GSF Energy. Otherwise, a flaring station would be constructed to burn the gas.

To facilitate construction of the landfill cap, clearing and grubbing of the site would be required. Access road improvements may be needed to accommodate the construction equipment that would be traveling to the site. Dust control measures (e.g., the use of water trucks) would be taken to minimize the off-site migration of dust. To prevent soil erosion and reduce off-site sediment

transport, a soil erosion and sediment control plan would be prepared. These plans will identify the measures to prevent soil loss and off-site damages, measures to establish proper vegetation, and post-closure maintenance procedures. Stormwater management controls may also be required.

All necessary permits and approvals will be obtained for construction including, but not limited to, those from: HMDC, Hudson-Essex-Passaic Counties Soil Conservation District, State of New Jersey, and the Town of Kearny. NJDEP permits include those for wetlands disruption, well drilling, air permitting, and landfill disruption.

Post-closure care is required for a minimum of 30 years. Maintenance needs would be determined by periodic site inspections. At a minimum, the vegetated cover, side slopes, fencing, gas collection system, and storm water management systems would require periodic inspection and maintenance.

The construction, operation and maintenance, and total present worth (over a 30 year period, using a 5% discount rate) costs for landfill capping were estimated as follows, assuming that the cap will cover the entire wastefill (approximately 94 acres):

Capital Cost	\$ 13,000,000
Annual O&M Costs	\$ 430,000
Total Present Worth Costs	\$ 19,600,000

If, during design, it is determined that the stability of the landfill will be compromised by capping the entire landfill, or that the benefits realized in terms of reduced leachate production are not equal to the additional costs of capping the entire landfill, a partial cap on the top of the wastefill (approximately 20 acres) will be constructed. The construction, operation and maintenance, and total present worth (over a 30 year period, using a 5% discount rate) costs for partial capping were estimated as follows:

Capital Cost	\$ 3,000,000
Annual O&M Costs	\$ 90,000
Total Present Worth Costs	\$ 4,400,000

### 10. REMEDIAL ACTION PERFORMANCE

This section evaluates the performance of the remedial action presented in Section 9 in terms of regulatory criteria for selecting remedial alternatives. These include requirements for protection of human health and the environment, implementability, time for remediation, and cost (ref. N.J.S.A. 58:10B-12). The New Jersey Spill Compensation and Control Act (N.J.S.A. 58:10-23.11 et. seq.) states that any cleanup shall be, to the maximum extent possible, in accordance with the Federal National Oil and Hazardous Substances Contingency Plan (NCP). The NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E-5) contain four criteria for the initial evaluation of remedial alternatives that are in accordance with the NCP and are presented below. Any remedy should meet these criteria in order to be considered for the site.

CRITERIA 1 considers protection of human health and the environment. N.J.S.A. 58:10B-12 requires that remediation standards be protective of human health to the level of one additional lifetime cancer risk per million people for carcinogens and to a Hazard Index Level of less than one for noncarcinogens. The remedy selected in this Plan provides protection of human health and the environment by means isolating the landfill contaminants within a subsurface cutoff wall and under a landfill cap. The barrier wall will prevent contaminated leachate from coming into contact with ground or surface waters. Leachate collected from the landfill will be pumped off-site to a permitted disposal facility. The cap will serve to reduce the infiltration of stormwater through the wastefill that causes the generation of leachate. Direct-contact risks associated with contaminated materials and soils will be reduced through the placement of the cap, and implementation of soil erosion and sediment controls. Exposure to gaseous emissions from the landfill will be prevented by the gas collection system.

The remedial action will comply with all applicable federal, state and local laws, and regulations. During the construction of the subsurface barrier wall and cap, some short-term impacts on the environment are anticipated. Some disruption of the surrounding wetlands may occur to allow space for construction equipment and/or the barrier wall or cap. A wetlands mitigation plan will be developed to address these areas. Soil erosion and sediment control measures will be implemented to minimize any impacts from construction on the surrounding environment. Odors from the excavations for the subsurface wall are also anticipated. All work will be performed according to an approved Health and Safety Plan. The air will be monitored for hazardous chemicals and odors.

<u>CRITERIA 2</u> is implementability, which is the technical feasibility of a remedy including the availability of materials and services needed to implement the chosen solution. Solid waste type caps and gas collection systems are routinely constructed for closure of landfills. Many firms are familiar with the equipment, specialists, and materials required to construct these cap systems.

Subsurface barrier walls to control ground water flow have been used successfully since the 1940s on civil works projects. Since CERCLA legislation in the 1980s, subsurface barrier walls have been used more frequently to control contaminated ground water. Considerable information now exists on the design, testing, construction, and monitoring of subsurface barrier walls of various types, for these purposes. The HMDC has constructed subsurface barrier walls in combination with leachate collection systems at the MSLA 1A Landfill and the MSLA 1E Landfill, which are both nearby. Based on discussions with the HMDC, these remedies have been operating successfully for several years.

The construction of this remedy will require temporary and permanent easements from a number of property owners. Based on past experience, access agreements and easements have been obtained in the past by the NJDEP for environmental cleanup work and should be negotiable for this project.

<u>CRITERIA 3</u> is timeliness or how quickly an alternative will achieve remediation standards. N.J.S.A. 58:10B-12 and the Federal NCP requires the consideration of whether a remedial alternative can be implemented within a reasonable time frame without endangering human health

or the environment.

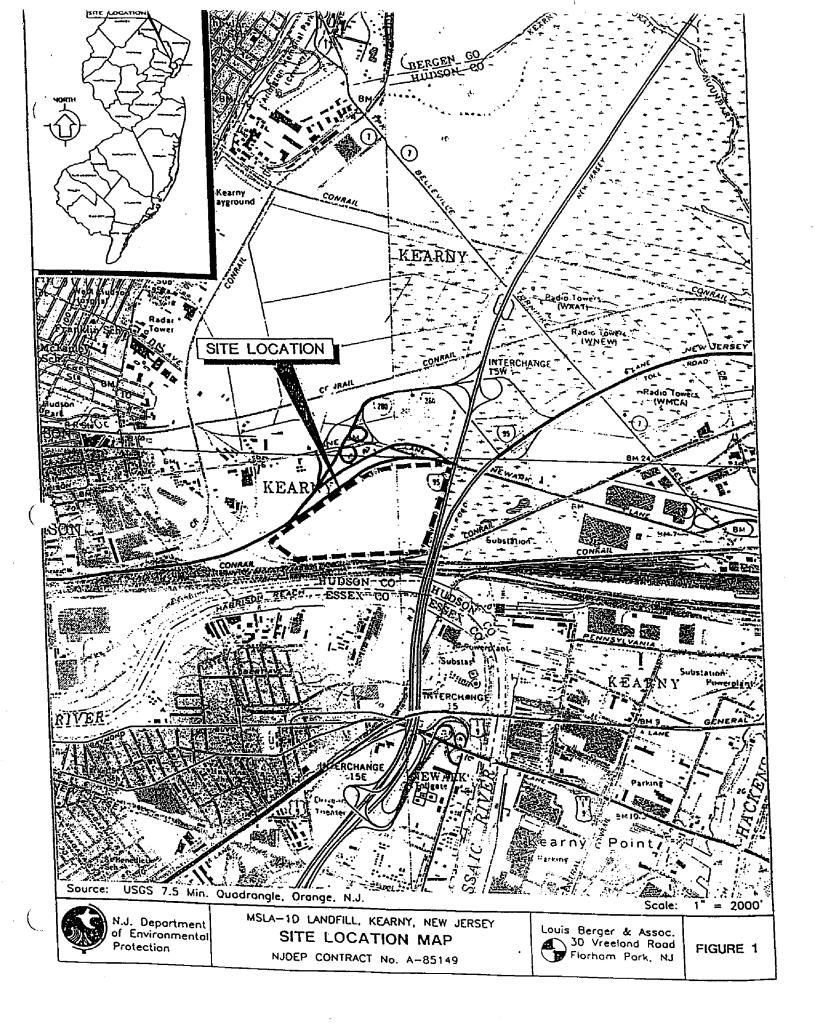
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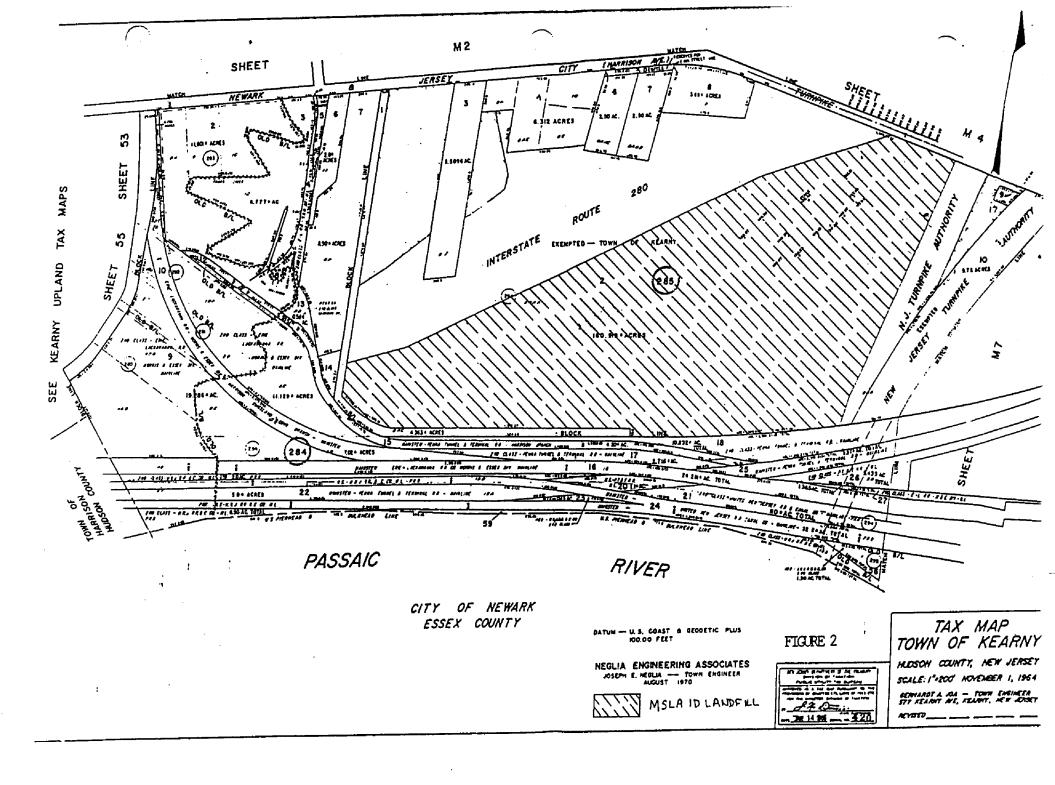
Operable Units 1 and 2 are each expected to take two years to construct after completion of their designs. The beneficial effects of preventing leachate migration into the ground water and surface waters, the control of landfill gas, and prevention of direct contact of humans and animals with waste materials, will begin upon completion of construction.

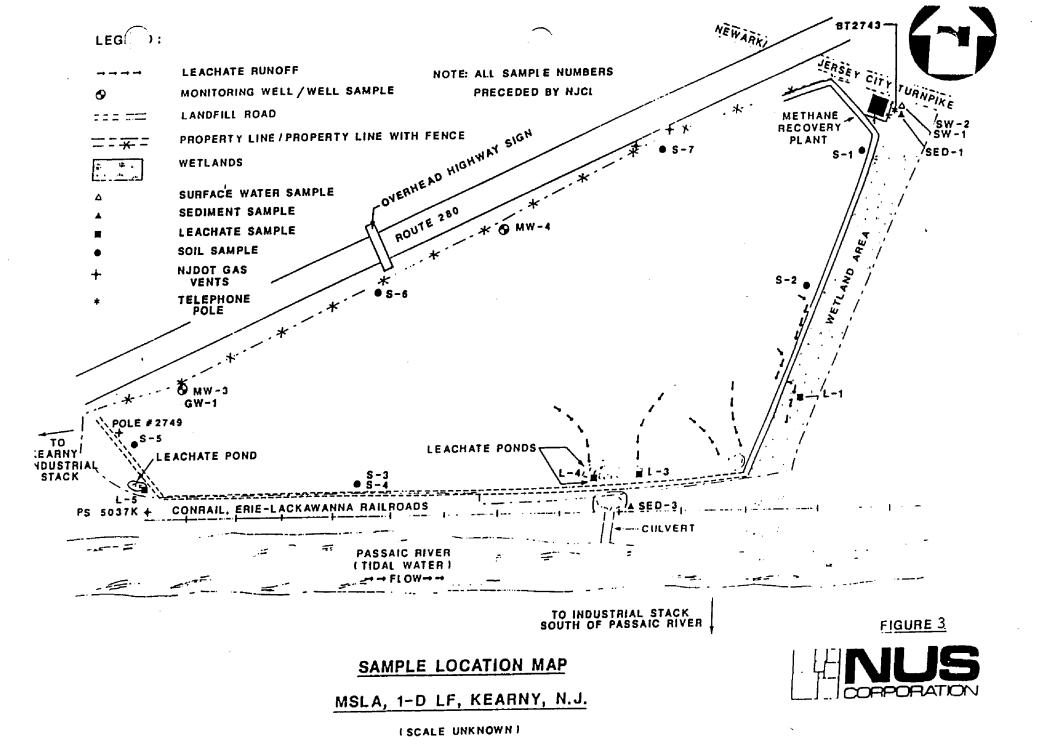
CRITERIA 4 is cost. The cost of a remedial alternative, excluding "No Action", should not be grossly excessive compared to the other alternatives evaluated. The Background Investigation and Design Recommendations Report evaluated three subsurface wall alternatives, and partial and full capping. The type of barrier wall to be deployed at the site will be determined by design studies of the compatibility of the leachate with the wall material, by the physical constraints of the site (utilities, topography, wetlands, etc), and by health and safety issues. Similarly, the extent of capping will be determined based on engineering and cost/benefit studies. The most cost effective construction methods and materials that meet design criteria will be selected.

The remedy selected in this Plan addresses all of the four criteria of concern discussed above. It provides for protection of human health and the environment, is technologically feasible, provides for immediate relief from continued pollution of ground and surface waters. Every attempt to minimize short-term impacts to the surrounding community from construction of the remedy will be made.

### ATTACHMENT I – FIGURES







## ATTACHMENT II - TABLES

#### TABLE 1 **MSLA 1-D LANDFILL** SITE INSPECTION SAMPLING RESULTS-GROUND WATER \*

QUANTIFIED COMPOUNDS (ug/L)	SAMPLE IDENTIFICATION NJCL-GW1	NJDEP CLASS IIA GWQS (ug/L)**
VOLATILE ORGANIC COMPOUNDS		(ug/L)
Chlorobenzene Chlorobenzene		
Ethylbenzene	以及通過過程的第三人称形式	4
Toluene	50	700
Xylenes (Total)	24J	1000
Aylones (Total)	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40
SEMI-VOLATILE ORGANIC COMPOUNDS	ND	
PESTICIDES/PCBS	ND	
METALS_		
Aluminum	100 000 000 000 000 000 000 000 000 000	200
Arsenic	6.9J	200
Barium	17 A SEC. 33510 E	2000
Calcium	61,000 E	2000 NP
Chromium	0.000 (0.	100
Cobalt	3.4J	NP
Copper	61.1 E	1000
iron Lead	12.000 V2.000 E	300
Magnesium	\$17E	10
Manganese	92,000 E	NP
Nickel	22/15 PM	50
Potassium	8-7-19-8-19-9-E	100
Sodium	505,000 E	NP
Vanadium	2K)000 E	50,000
Zinc	20.6J	NP
	331 E	5000

#### NOTES:

Sampling performed by NUS Corporation and analyses performed by Keystone Environmental, 1/90.
 GWQS Ground Water Quality Standards (N.J.A.C. 7:9-6)

ug/L - micrograms per liter

- J Estimated value for compound present below CRDL but above IDL
- E Estimated value
- NP Not published for this constituent

TABLE 2
MSLA 1-D LANDFILL
SITE INSPECTION SAMPLING RESULTS - LEACHATE\*

QUANTIFIED	SAMPLE IDENTIFICATION				SWQC HUMAN HEALTH	SWQC AQUATIC LIFE
COMPOUNDS	Ĺ		2.25.14	NJCL-L5	(ug/L)**	(na/r)
(ug/L)	NJCL-L1	NJCL-L3	NJCL-L4	NJCL-L3	[ug/L]	1-3/-/
VOLATILE ORGANIC COMOUNDS					NP	NP
2-Hexanone	25E	ND	ND	ND		
Z-1 TEXASTRATA					1	
SEMIVOLATILE ORGANIC COMPOUNDS			<del></del>	780J	NP	NP
Phenanthrene	540J	250J	300J		370	NP
Flouranthene	860	3800		800J	8,970	NP
Pyrene	1,100E	1,1005	760E		0.031	NP
Benzo(a)anthracene	4000	8035	3508	2 (#22345380J #2546)	0.031	NP
Chrysene	5509	4000	(200)	20J9电影	0.031	NP.
Benzo(b)Fluoranthene	19100 MEET	6603 M	100 March	<b>200</b> 年570J会经济实	0.031	NP
Benzo(a)pyrene	5 50t) HICE	540VF	<b>建筑</b> 4309 全线	ND	0.031	NP
Indeno(1,2,3-cd)pyrene	4100		2809	ND ND	NP	NP NP
Benzo(g.h.l)perylene	430J	420J	330J	ND	NP	inc
Delizo(g,ii,i)peryiene			1	1 1		
PESTICIDES/PCBS			<u> </u>			NP
beta-BHC	330	ND	ND	ND	0.460	NP NP
4.4'-DDD	4.9	ND	353	<b>建设设于7.53 国现在</b>	0.000837	NP NP
4.4'-DDE	ND	ND	247 MARK	<b>对于27</b> J的对于	0.000590	NP NP
4,4'-DDE	750	ND	100 March 201 March 201	自然是不放11J 的原源工	0.000590	0.03
	ND	ND	(TUE THE	ND	NP	0.03
Methoxychlor			<b>)</b>	1	į.	
METALS	1					
	12,200 E	9,310 E	6,430 E	9,980 E	NP	NP
Aluminum	ND ND	8,20J	6.40J	14.5	4,300	NP
Antimony	18 T-18 T-18 T-18 T-18 T-18 T-18 T-18 T-	ND	54, 54, 54, 54, 54	<b>的现在分</b> 7.3 经基础	0.135	36
Arsenic	559 E	280 È	330 E	215 Ē	NP	NP
Barlum	0.47J	0.71J	0.25J	2	NP	NP
Beryllium	0.76J	2.1	0.98J	3.9	NP	9.3 NP
Cadmium	24,100 E	13,600 E	12,600 E	10,600 E	NP	
Calcium	20 E	103 E 12 M	262 E 1987	44-50X 68:1 E×1902	3,230	50 a NP
Chromium	6.20J	8.30J	21.5	6.70J	NP	
Cobalt	374 B	MOE	(ISE	490 E4236	NP	5.8 b
Copper	17.500 E	27,500 E	29,500 E	16,500 E	NP	NP
ead	304E	603 E	29E	1250;E <b>9</b> 0字	NP	8.1
	6,010 E	3,290 E	4,100 E	3,690 E	NP	NP NP
fagnesium fercury	0/NE	ON S.E		2.6 Edit	0.148	0.025 b
lickel		12	237	75.1 排列数数	3,900	8.2
	1,530	720J	573J	1,450	NP	NP
otassium	34.9	30.7	33.5	26.5	NP	NP
anadiuminc	384)E MARKET	2015	Maria 1991 - 1991	2,360 E4530	NP	81

- \* Sampling performed by NUS Corporation and analyses performed by Keystone Environmental, January 1990.

  \*\* SWQC Surface Water Quality Criteria Saltwater, Human health criteria, total recoverable NJAC 7:98-1.14

  \*\*\* SWQC Surface Water Quality Criteria Saltwater, Chronic effects aquatic life criteria, dissolved

- a Chronic effects for Cr<sup>46</sup> b Total recoverable

- ug/L micrograms per liter J Estimated value for compound present below CRDL but above IDL
- E Estimated value ND Not Detected

#### TABLE 3 MSLA 1-D LANDFILL SITE INSPECTION SAMPLING RESULTS - SURFACE WATER •

QUANTIFIED COMPOUNDS	SAMPLE IDENTIFICATION	NJDEP HUMAN HEALTH	NJDEP AQUATIC	
(ug/L)	NJCL-SW2	SWQC (ug/L)**	SWQC (ug/L)***	
VOLATILE ORGANIC COMPOUNDS	1			
Benzene	3,			
Chlorobenzene	33	71	NP	
	30	21,000	NP NP	
SEMI-VOLATILE ORGANIC COMPOUNDS	ND			
PESTICIDES/PCBS	ND ND			
METALS				
Aluminum	25,100E	NP NP		
Arsenic	22.9E	0.136	NP	
Barium	1240		36	
Cadmium	6.9	NP NP	NP	
Calcium	233,000E	NP NP	9.3	
Chromium	292E	NP	NP	
Cobalt	30.4J	3,230	50 a	
Copper	30.43	NP NP	NP NP	
Iron	60,800E	NP NP	5.6 b	
Lead	3,050E	NP NP	NP	
Magnesium		NP	8.1	
Manganese	108,000E	NP NP	NP	
Mercury	1,710E	100	NP	
Nickel		0.146	0.025 Ь	
Potassium	222E	3,900	8.2	
Sodium	159,000	NP NP	NP	
Vanadium	631,000	NP	NP	
Zinc	100E	NP NP	NP	
	<b>通道</b>	NP	81	

#### NOTES:

- \* Sampling performed by NUS Corporation and analyses performed by Keystone Environmental, 1/90.
  \*\*SWQC Surface Water Quality Criteria Saltwater, Human health criteria, total recoverable NJAC 7:9B-1.14
  \*\*SWQC Surface Water Quality Criteria Saltwater, Chronic effects aquatic life criteria, dissolved

- a Chronic effects for Cr\*6
- b Total recoverable

ug/L - micrograms per liter

- J Estimated value for compound present below CRDL but above IDL
- E Estimated value
- NP Not published for this constituent ND Not Detected

TABLE 4 MSLA 1-D LANDFILL
SITE INSPECTION SAMPLING RESULTS-SEDIMENTS\*

QUANTIFIED COMPOUNDS	SAMPLE IDEN	ITIFICATION	MARINE/ESTUARINE SEDIMENT CRITERIA"	
(mg/kg)	NJCL-SED1	NJCL-SED3	Low Effects Level (mg/kg)	Medium Effects Level (mg/kg)
VOLATILE ORGANIC COMPOUNDS				
2-Butanone	0.053	0.095	NP	
-Hexanone	0.014J	ND	NP	NP NP
SEMI-VOLATILE ORGANIC COMPOUNDS			IMP	NP
Phenanthrene	9230:0.6701 20018	ND	0.240	4 50
louranthene	198×451770788696	\$43020 641 Judicin	0.600	1.50
Pyrene	###2:401EV3#4#	194320:813 mak	1	5.10
Benzo(a)anthracene	**************************************	Side of the last	0.005	2.60
Chrysene	\$100 Per 2:00 Per 2:00	##### 0 939 F	0.384	1.60
Benzo(b)Fluoranthene	4.50	1.40.1	0.364 NP	2.80
Benzo(a)pyrene	<b>建筑路</b> 约2:20 <b>1000</b>	0.823	0.430	NP
ndeno(1,2,3-cd)pyrene	<b>有效的41:80%的</b>	#### 0.78 T	0.200	1.60
Benzo(g,h,i)perylene	10 miles 1:60 miles		0.200	320.00
Total Polynuclear Aromatic Hydrocarbons	\$200018:475 MAS	MARSON R'R'I I I MARSON	4.0	320.00
PESTICIDES/PCBS			4.0	45.0
beta-BHC	100000000000000000000000000000000000000	FTCTER FREE STORY		
4,4'-DDD	0.015J		0.005	21
4.4'-DDE	0.0153	0.180 E	ΝÞ	NP NP
4.4'-DDT	NO.	ND 0.0673	0.0022	0.027
METALS			0.0016	0.0460
Aluminum	10,600 E	12,000 E	<del> </del>	
Arsenic	MANUAL 18 MINE	5.32	NP 8,2	NP NP
Barium	180 E	228 E	NP 8.2	70.0
Cadmium	337	ND ND	1.2	NP NP
Calcium	5,020 E	13,000 E	NP	9.6
Chromium	# 24.181 E	50.1 E	81.0	NP
Copper	<b>MANUS</b> 947/E <b>000</b>	Marie 85 9 E 188	34.0	370.0
Iron	19,300 E	16,500 E	NP	270.0
Lead	###353JE###	10 L 238 E	47.0	NP 240 0
Magnesium Mercury	2,980 E	3,270 E	NP NP	218.0
Nickel	20)E	0.821	0.15	0.71
Sodium	(68)	214	21.0	
Vanadium	1310J	1,660	NP	52.0
Zinc	34	33.7	NP NP	NP NP
	3,60)=	299	150.0	410.0

#### NOTES:

Sampling performed by NUS Corporation and analyses performed by Keystone Environmental, January 1990.
 NJDEP Guidance For Sediment Quality Evaluations, November 1998.

- mg/kg milligrams per kilogram J Estimated value for compound present below CRDL but above IDL E Estimated value
- NP Not published for this constituent ND Not Detected

#### TABLE 5 MSLA 1-D LANDFILL SITE INSPECTION SAMPLING RESULTS-SOIL\*

QUANTIFIED COMPOUNDS	SAMPLE IDENTIFICATION			NJDEP NRDCSCC**	NJDEP RDCSCC***	NJDEP IGWSCC**** (mg/kg)	
(mg/kg)	NJCL-S1	NJCL-\$3	NJCL-S6	NJCL-S7	(mg/kg)	(mg/kg)	(11)8/08/
							<u> </u>
VOLATILE ORGANIC COMPOUNDS	ND	ND	ND	0.150	680	37	<u> </u>
Chlorobenzene	- ND	ND	ND	0.081	1,000	1,000	100
Ethylbenzene		ND	ND	0.069	1,000	410	67
Xylenes (Total)	ND	NO	140				
SEMI-VOLATILES ORGANIC COMPOUNDS	L			4.20	NP	NP	NP
Phenanthrene	ND	ND	ND	1.20	10.000	2.300	100
Fluoranthene	0.150J	ND	ND	2.20	10,000	1,700	100
Pyrene	0.170J	0.93	ND	1,40	4	0.9	50
Benzo(b)fluoranthene	0.170J	ND	ND	AND 0.75E	0.66	0.66	100
Benzo(a)pyrene	ND	ND	ND			0.9	500
Benzo(a)anthracene	ИD	ND	ND	0.91J	4	0.9	500
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.39E		0.0	
PESTICIDES/PCBS	0.015	ND	0.078E	0,100	NP	NP	NP
Beta-BHC		0.100	ND	ND	9 1	2	500
4.4'-DDT	0.0027J	0.030J	0.200J	ND	5,200	280	50
Methoxychior	0.040J	0.050J	ND	ND	9	2	50
4,4-DDE	ND	0.0513	NU				
METALS				13.000 E	NP NP	NP	NP
Aluminum	5,660 E	7,840E	8,240 E	13,000 E 8.7	20	20	(Site Specific)
Arsenic	2	4.1	6.1	193	47,000	700	(Site Specific)
Barlum	26.4J	157 E	78.9 E	1.0	100	39	(Site Specific)
Cadmium	0.74J	1.1	1.6			120,000	NP
Chromium	11.4	60.8	85.2 E	34 E	(Site Specific)	600	(Site Specific)
	37.3 E	56.9 E	59.1 E	137 E	600	400	(Site Specific)
Copper	40.8	216 E	71,4 E	200 E	270	14	(Site Specific)
Mercury	ND	0.36 E	1 E	0.82 E		250	(Site Specific)
Vickel	ND	120	17.7	18.8	2,400	370	(Site Specific)
/anadium	12,2	27.5	22.6	18.7	7,100 1,500	1,500	(Site Specific)
Zinc	26.3 E	206 E	132 E	211 Ê	1,500	1,200	10.10 Opos.10/

\* Sampling performed by NUS Corporation and analyses performed by Keystone Environmental, January 1990.

\*\* NRDCSCC Non-Residential Direct Contact Soil Cleanup Criteria (Last Revised-5/3/99)

\*\*\* RDCSCC Residential Direct Contact Soil Cleanup Criteria (Last Revised-5/3/99)

\*\*\*\* IGWSCC Impact to Ground Water Soil Cleanup Criteria (Last Revised-5/3/99)

Trivalent Chromium

mg/kg - milligrams per kilogram J - Estimated value for compound present below CRDL but above IDL NP - Not published for this constituent ND - Not Detected E-Estimated value

### **NAL HEALTH COMMISSION**

AVE. HARRISON, NEW JERSEY 07029 PAGE / of /

### PRODUCTS 1

Ceculia Sconor de

the properties a Liberaryais, Inc.

#### INVESTIGATION

	H-R-H.	C. CASE	#		
	RRIVED	2:00	_DEPARTURE_	3:00	MANHOURS
LOCATION: air Product + CK	emicale, by	RP:			
ADDRESS: 1501 Harrison are	,	•			
Kearing M.g.					
LOCATION PHONE# 0997-652	7 ·	OTHER:_	<del></del>		
NOTIFICATION REC'D FROM: self					
DATE: 4/21/93 TIME: 2:0	o P.M.		· · · · · · · · · · · · · · · · · · ·		
NATURE OF INCIDENT:	m lige	is pe	replation	out o	I ground
OTHER RESPONDING AGENCIES:					
VIOLATIONS ISSUED:					
FINDINGS: Lite inspection	_ condu	eled	as a re	ult 7	liquid
ofsered sercolating a	#1	grown	l in fo	To	fluit
Liquid had a slight	Linell	hatin	and was	frame	in as it
flowed along curl in	to near	h m	arel.		0
according to M. Cer	eil Bon	rellip	· Plant	Murage	some
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in a water main wh	ail ru	na al	ng Har	Quan a	neme or
a lendfill backete	due	tore	celt le	it pre	expetation.
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and had scheduled me	I eren	- t- 1	regin ex	canali	- Linday
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No cause for further	action	at to	tis time	<u>.                                    </u>	
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SUPERVISOR SIGNATURE			INVESTIGAT	OR STONA	TURE
SULFEATION STRUKTORE		FTLR:	SITE		, OQ
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### HUDSON REGIONAL HEALTH COMMISSION

215 HARRISON AVE. HARRISON, NEW JERSEY 07029 PAGE OF

INV	EST	'IG	AΤ	ION

TEP	04-2-4-426-62
INVESTIGATION DATE: / // G// H-R-H-C	c. case# $\frac{77-2-9-1129-03}{}$
INVESTIGATOR TIME ARRIVED	1230 DEPARTURE 1266 MANHOURS
LOCATION: /tre Products H	RP:
ADDRESS: 1501 Harrison He	
Keckeny	
LOCATION PHONE# $997-6527$	
NOTIFICATION REC'D FROM: HC ENGONOM -	Demitor Henribic 915-1360
DATE: 2/4/94 TIME: 10:15	
NATURE OF INCIDENT: reported yellow de	achaige along Harrows the pear
R1 280 interaction	
OTHER RESPONDING AGENCIES:	
VIOLATIONS ISSUED:	
FINDINGS: Found exclount - brown	
Cit Products. I spoke to Coal	Bonnell, plant manager, he
said this duchage is leachate	from land fell ID andis
not a coak of the effluent use	ed in the glas generation at
This slant.	<i>y y</i>
This is not the first du	who ign - from the land-fill, last
March Circl raid the rame Th	ing occurred. (in aria was
excavaled to determine if a pre-	Stocke, line was tested, and
I was determined no link from	The law let, had caused This
but the Gachate just found of	an area of low resentance and
Morrish and	
Landfull 1. D has not	been "Copped" ou does I have
a (cochate collection system)	
(iii Products of find to	sample the clerchange and
analyse it to really that it is.	backate and ixt there offlowert,
and will better this with a	atte to Kening and to their
ine (many) requesting information	i re: the likelinte
2 spike to Gan Contain to	grante to and Demotric to yelate
Desirting rose led a constal seld	and a
	/
D.1.5.0.0	2005
$\mathcal{Y}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}} \qquad BAEOO$	UUUS Cot Builey
CHARALTON CICNAMIDE	INVESTIGATOR SIGNATURE
SUPERVISOR SIGNATURE	FILE: SITE LOG CO

TIERRA-A-018361

### **HUDSON REGIONAL HEALTH COMMISSION**

215 HARRISON AVE. HARRISON, NEW JERSEY 07029 TEL. 201-485-7001 FAX 201-485-1251

### REPORT OF PHONE CALL OR VISIT

Bureau or Office	·	<del>-</del>		
În	Out		File AIR PRODUCTS/C	<u> </u>
Date	Time		Rowing 1501 HARRISON	AUG
			_HARRISON NO	T.07029
	•			
Person Contacted	MIKE SOYERE ( / CECILLE	BONEUE	Phone No. 997-6527/ 43	481- 315
Affiliation	GSF AIR PRODUCTS			· ——
Subject of Visit	LEACHATE COHING	THROUGH	PROPERTY FROM 10	LANDFILL
Summary of Visit	Don Bear Con HRIFE um	reitypt	L'obers-See FR	
U/S Ess	Alid no analysis pro	whent.	to demonstrate	
_it we	a not their effluents	I told	them Hete would n	_ al
require	analysis at this time	. Uls a	statul it was volute	-
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<i>,</i>	Pat Ferrano DEPE	-11541	. /	<del>-</del>
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			Signature	

# HUDSON REGIONAL HEALTH COMMISSION MEADOWVIEW CAMPUS

595 COUNTY AVENUE, BUILDING 1, SECAUCUS, NEW JERSEY 07094

PAGE / of /
INVESTIGATION
INVESTIGATION DATE: 3/11/99 ARRIVED 10 30 DEPART 1/990 HOURS
REC'D FROM: 1750 DATE: 3/4/99 TIME: 1000A2~
LOCATION: D-/ LANdfil/ RP:
ADDRESS: 150/ HAMISON AND IT.M.D.C. MANNY TOWN,
4 parmy No. GSF/FOGAS.
LOCATION PHONE 201-997-6527
NATURE OF INCIDENT: 0/64, Seeptife Spill
VIOLATIONS.
OTHER AGENCIES: HPD KHO. VIOLATIONS:
FINDINGS: Abswell himse issuing to the around surface
within that the curb seek in front of GSF/Floggs
HMOC land Hill. Stud liqued in Al Stowing Story
the cirb to A surface water a discharge point ( just first
of the frestity. An oily shapen had Accountinged.
O MATURE OF DIL AND AND MIBERING KHI. SUN JETTER
1/11 DEP DE MOTITIAN (188# 44-05-11-1117 00)
M. The Site What He I though the be
Mr. 100 Stiveli MANT My of ECOGE SAW TO WORTO
do surface water directly until the ColDIT Charal
the surface waters directly until the collect Charge
"PILOUS" And the Sine clint Shaled of MANHAL
THE ANDA TO TRAPIE HODE
HARDE, N. J. DEP (Chris Doir) & ECCE AS AND HAVING
A meeting jomewow short how to resolve this shoult

SUPERVISOR SIGNATURE

INVESTIGATOR SIGNATURE

FILE: SITE LOG

EX: Y N U

ACTIVE: REFERRED: X NOV ISSUED: CLOSED:

ASST. REQUEST:

COMPLIANCE ASSISTANCE REPORT COMPLAINT NOTIFICATION REPORT NORTH: X CENTRAL: SOUTH: MGT.REF:

REFERRAL#:

DATE DUE:

DATE REC'D: CASE NO.: 1999-03-11 # 1404

Yr. Mo. Day

DATE: 1999-03-11 REC'D BY: COMM.CTR.

TIME: 11:17

INCIDENT REPORT BY

Last Name: OPERATOR 3 Street:

First Name:

Phone: (201)991-1400

City: KEARNY

County: HUDSON

State: NJ Zip:

Affiliation/Title: KEARNY FIRE DEPT.

INCIDENT LOCATION Transportation:

Facility: x Other:

Site Name: D LANDFILL

Street: HARRISON/280 RAMP

County: HUDSON

State: NJ Zip:

State: NJ Zip:

Phone:

City: KEARNY

Date of Incident: 1999-03-11

Time: 10:01

RESPONSIBLE PARTY Suspected: x

Company Name: D LANDFILL

Contact:

Street: HARRISON AVE City: KEARNY

Unknown:

Phone:

Title:

OFFICALS NOTIFIED (Name/Title)

NJSP:

COUNTY HEALTH: HUDSON CO CEHA

LOCAL HEALTH : KEARNY H.D.

USEPA: OTHER: NO. HAZ. WST. County: HUDSON

Phone:

Date: Phone: (201)223-1133 Date:

Time: Time: Time:

Time:

Time:

Phone: Date: Phone: Date: Phone: Date:

Assigned to:

Date Assigned:

Date Closed:

Violations cited NJAC:

COMMENTS: LEACHATE FROM LANDFILL RUNNING OFF SITE ONTO ROADWAY, LOCAL

HEALTH DEPT ON SCENE.

COMMENTS CONT'D:

\*\* TOTAL PAGE.002 \*\*

THE TOTAL STATE OF THE PROPERTY OF STATE OF STAT \$11400 MHGE: 1/1

DEP-090 5/95

NUSP MUNIC OTHER

## New Jersey Department of Environmental Protection

CC	MMUNICAT:	CONS CENTER	NOTIFICA:	rion re:	PORT D
Received	03/11/1999			TC Log#	39936
Operator	JIMH	Reviewed By		Case #	99-03-11-1117-15
Reported By	<del></del>	Notification Type M			
OPER 3		KEARNY FD			Phone 201-991-1400
Street Address		Municipality			State
Incid	ent Location: Other				
Site: AREA OF			]	Phone	
Street Address		Municipality		_	ounty Stat
HARRISON/280 RAMP		KEARNY TOWN		HUDSO	
Location Type Comme	ercial		Incident Da	te 03/11/1999	Time 1011
Substance Released LEAG	COC 4 TEN			(447771777	1011
Amount Reies		N. 1			
		): CAS#	UNKNOWN		
Additional Substances	No Industry	CA3#		Release Is C	ontinuous
Substance Contained	d? No	Hazardous N	Materia ? U TCP/	42 N	10101
COMU Coc					A310 Letter? N
		7,610.1	al code [101] is	Hazardouse vve	iste involved? No
Incident Description Spill					
Injuries? No	Public Ev		acility Evac? No	Public Ex	nosura? N.
Police On Scene? Yes	Firemer On S∞e		P Requested? No		posure? No
Wing S	peed/Direction	Contamination Of	<del></del>	ng Water	110
Status at Scene		Land	l !		1
LEAK FROM LANDFILL T	O ROADWAY.LOCA	L HEALTH DEPARTM	MENT ALSO ON SCEN	E	<u>,                                      </u>
Responsible Party				· · · · · · · · · · · · · · · · · · ·	
Party D LANDE	ΠL		Phone		
Contact			<u> </u>		
Street Address		 Municipality	Title		
HARRISON AVE		KEARNY TOWN	·	Cour	
		TEACT TOWN		HUDSON	NJ NJ
**		OFFICIALS NO	TIFIED		
NUSP Name		Affiliation	Pnon	è	Oate Time
UNIC					Date Time
THER					
Name	Affili		Method		ate Time
	BFO-CAS		Faxed, Maile	03/11/	1999
	Northern		Faxed	03/11/	
	HQ DSWI	Y	Faxed	03/11	
		COMMEN	-		

MAR 11 '99 11:31

NITHER REPECT

\*\* TOTAL FAGE.02 \*\*

# HUDSON REGIONAL HEALTH COMMISSION MEADOWVIEW CAMPUS

595 COUNTY AVENUE, BUILDING 1, SECAUCUS, NEW JERSEY 07094

		alalya	/
FOLLOW UP/CONTINUATION		<u> 3/12/99</u>	HOURS:
CASE NAME:	ADDRESS:		
	A. 1 4711 15		
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	INVESTIGATO	OR SIGNATURE	ı

### State of New Acreeu

Therefore Feel (Whitman) Incorner

Department of Environmental Protection

Robert C. Shinn, L. Commissioner

### PLEASE FAX THIS INCIDENT FOLLOW-UP SHEET TO (609)588-2444 WITHIN TEN (10) WORKING DAYS OF RECEIPT.

PROM: HUDSON CO. CEHA S. Dem paines HEALTH DEPT.
CASE #: 99-03-11-1404 DATE RETURNED TO DEP: 3-7-99
INCIDENT LOCATION: D-//AndA//
MAMISON ALL J- Z80 ext. MAMP
- MANNY
MUNICIPALITY: MANNY TOWN
VIOLATION (S) ISSUED: YESNO
RESULTS OF INVESTIGATION
DATE OF COMPLETION: 3/11/99
(If still ongoing, please explain why with an anticipated date of completion)
160, reported as luce # 99-03-11-1117-15
by the Many line dipt.
Mattingle is white issuing from grounds
- I LAN All & tynning out roadway continuously
The material is a fact proting aguards
Time may be add wheel though de Rivined Ite Monagement
1 Mike Burlingand, bog-196 31414

New Jorsey is an Equal Opportunity Employer
Recorded Power